Nataša Pržulj: Curriculum Vitæ

Professor of Computational Biology
Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)
Masdar City, Building 1B, 1st Floor, Abu Dhabi, United Arab Emirates
Phone: (M) +971 56 707 3351
Web Page: https://przuljlab.bio/
E-mail: natasa.przulj@mbzuai.ac.ae
ORCID ID: orcid.org/0000-0002-1290-853X
Scopus Author ID: 6603832221
Citizenship: British, Canadian, Serbian

Research Interests

- Artificial Intelligence (AI) algorithms for precision medicine: patient stratification, biomarker and target discovery, drug re-purposing, de novo drug discovery, disease re-classification
- Data analytics, modeling, fusion, dynamics, applied to clinical, molecular & multi-omics data
- Algorithms for uncovering molecular mechanisms of disease from multi-omics data
- Molecular networks: analysis, evolution, dynamics, alignment, function prediction
- Computational graph theory, network science, algorithms, models
- Large-scale economic data analysis, fusion and modeling the dynamics of economic systems

Education

Ph.D. Computer Science, University of Toronto, Canada, 2005
Title: *Analyzing Large Biological Networks: Protein-Protein Interactions Example*
Advisory Committee: Derek G. Corneil (CS, co-supervisor), Igor Jurisica (CS, co-supervisor), Rudi Mathon (CS), Gil Prive (Medical Biophysics)

M.Sc. Computer Science, University of Toronto, Canada, 2000
Title: *Minimal Hereditary Dominating Pair Graphs*
Supervisor: Derek G. Corneil (CS)

B.Sc. Computer Science and Math., Simon Fraser University, Canada, 1997
First Class Honors
CGPA 3.85 out of 4

Professional Positions

2025 – present: **Professor of Computational Biology**
Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)
Abu Dhabi, United Arab Emirates
2019 – present: **ICREA Research Professor** (on leave to MBZUAI)
Catalan Institution for Research and Advanced Studies (ICREA)
2016 – present: **Professor** (0%), Computer Science, University College London (UCL), UK
2013 – present: **Professor** (0%), RAF School of Computing, Union University, Belgrade, RS
2019 – 2025: **Research Professor** at Barcelona Supercomputing Center (BSC), ES
2013 – 2016: **Full Professor** (20%), Faculty of Information Studies, Novo Mesto, Slovenia
2009 – 31/3/2016: **Asst. & Assoc. Prof.**, Dept. Computing, Imperial College London, UK
2005 – 2009: **Assistant Professor**, Computer Science, University of California Irvine, USA
2012 – present: **Scientific Advisor** (**Naučni Savetnik**) of the Mathematics Institute of the

Serbian Academy of Sciences and Arts (Srpska Akademija Nauka i Umetnosti, **SANU**)

2017 – 2020: Scientific Advisor (20%), Inštitut za matematiko fiziko in mehaniko, Ljubljana
2009 – 2016: Member of the Center for Integrative Systems Biology (CISBIC), Imperial
2009 – 2016: Member of the Institute for Systems and Synthetic Biology, Imperial College
2009 – 2016: Member of the Centre for Bioinformatics, Imperial College London
2010 – 2016: Visiting Research Scientist (20%), California Institute for Telecommunications and Information Technology, Irvine, CA, USA
2008 – 2009: Member of the University of California Irivne (UCI) Cancer Center
2006 – 2009: Member of the UCI Center for Complex Biological Systems (CCBS)
2005 – 2009: Member of the UCI Institute for Genomics and Bioinformatics (IGB)
2005: Post-doctoral Fellow, Samuel Lunenfeld Research Institute, U of Toronto, Canada
2002 – 2003: Research Assistant, Banting and Best Institute, University of Toronto
1999 – 2002: Substitute Instructor and Teaching Assistant, University of Toronto
2000: Visiting PhD Student, The Fields Institute for Research in Math. Sciences, Toronto
1997 – 1998: Programming Consultant, Westech Information Systems, Vancouver, Canada
1996 – 1997: Research Assistant, Simon Fraser University, Canada
1996: Teaching Assistant, Simon Fraser University, Canada
1995: Quality Assurance Engineer, Hughes Aircraft of Canada Ltd., Richmond, BC, Canada

Awards and Distinctions

1. Elected into Learned Societies and Councils

Vice-President of the International Academy of Artificial Intelligence Sciences (AAIS), since 2026
AAIS has 2,435 Fellows and 250,000 members, among whom there are 2 Nobel Prize winners, 3 ACM Turing Award winners, 31 Members of the US National Academy of Sciences, 86 Members of the US National Academy of Engineering, 46 Fellows of the UK Royal Academy of Engineering, 34 Fellows of the UK Royal Society, 33 Fellows of the Royal Society of Canada, 76 Fellows of the Canadian Academy of Engineering, 224 Members of Academia Europaea (Academy of Europe), 1641 IEEE Fellows, 263 ACM Fellows, 110 AAAI Fellows, 68 EurAI Fellows, etc.

Fellow of the International Academy of Artificial Intelligence Sciences (AAIS), since 2025

Fellow of the International Society for Computational Biology (ISCB), since 2024

Fellow of the European Laboratory for Learning and Intelligent Systems (ELLIS), since 2024

Fellow of the International Artificial Intelligence Industry Alliance (AIIA), since 2024

Honorary Fellow of European Society of Computational Methods in Sciences and Engineering (ESCMSE), since 2024

Member of the **Presidency of the Serbian Society for Bioinformatics and Computational Biology (BIRBI)**, appointed in 2021

Barcelona Ambassador, Barcelona City Council, appointed in 2021 for a 3-year term
The Barcelona City Brand for international economic promotion strategy

The Serbian Royal Academy of Scientists and Artists (SKANU), elected member, since 2019

Elected into **Academia Europaea, The Academy of Europe**, since 2017
Academia Europaea is a functioning European Academy of Humanities, Letters and Sciences, composed of individual members, by invitation. It promotes the advancement and propagation of excellence in scholarship in the humanities, law, the economic, social, and political sciences, mathematics, medicine, and all branches of natural and technological sciences anywhere in the world for the public benefit and for the advancement of the education of the public of all ages in the aforesaid subjects in Europe. It is a European, non-governmental association acting as an Academy.

Fellow of **The British Computer Society (BCS) Academy** of Computing, since 2013
The BCS Academy of Computing is a learned society dedicated to advancing computing as an academic discipline.

Elected into **The Young Academy of Europe (YAE)**, since 2013
The European Research Council (ERC) has manifested its support to YAE as a bottom-up initiative of a dynamic and innovative group of recognized European young scientists with outspoken views about science and science policy. YAE also has a close association with The Academy of Europe (Academia Europaea).

Scientific Advisor (**Naučni Savetnik**) of the Mathematics Institute of the **Serbian Academy of Sciences and Arts (Srpska Akademija Nauka i Umetnosti, SANU)**, elected Scientific Advisor, since 2012

2. Awards

BCS Roger Needham Award for 2014, sponsored by **Microsoft Research**, Cambridge
The award is given annually to for a distinguished research contribution in computer science by a UK based researcher within ten years of his/her PhD. The award has been made in recognition of the potential Prof. Przulj's research and work have to revolutionise health and pharmaceutics. Dr Przulj gave her award public lecture at **The RoyalSociety** in London, on November 19, 2014.

Nominated for 2008 **SIAM Dénes König Prize** (SIAG/Discrete Math) for paper J-9 below
Awarded biennially to a junior researcher for outstanding research in an area of discrete mathematics, based on a publication by the candidate in a peer-reviewed journal published in the three calendar years prior to the year of the award.
The Society for Industrial and Applied Mathematics (SIAM) is an international community fostering the development of applied mathematical and computational methodologies needed in various application areas.

3. Competitive Research Funding (selection, full funding detailed below)

Artificial Intelligence Research Alliance (AIRA) Ramon Llull Post-doctoral Programme (co-PI), **€9,455,811** (4 post-docs of 4 years each to BSC)
Barcelona Supercomputing Center (BSC), **2025-2028**
Funding Organization: HORIZON-MSCA-COFUND-2022 and the Catalan Gov.

ERC Consolidator Grant (CoG) (PI), €2,000,000
Barcelona Supercomputing Center (BSC), 2018-2025
These grants support excellent Principal Investigators at the career stage at which they may still be consolidating their own independent research team or program, who demonstrate the ground-breaking nature, ambition and feasibility of their scientific proposal.

ERC Proof of Concept Grant (PI), €150,000
Barcelona Supercomputing Center (BSC), 2020-2023

This grant is to support technology transfer of research of the ERC CoG, enabled: Start-up, **Graphlet Technologies**, founded and directed by Prof. Pržulj, 2021

ERC Starting Independent Researcher Grant (PI), €1,638,175
University College London, 2012-2017
These grants are awarded by The European Research Council (ERC) to support the next generation of research leaders in Europe.

Marie Sklodowska-Curie Innovative Training Networks (ITN) (co-PI)
€3,773,226, Barcelona Supercomputing Center (BSC), 2019-2024

H2020-ICT-2018-2020 Research & Innovation Action (RIA) (project participant)
€4,435,586 (out of which €502,500 to BSC), BSC, 2019-2022

USA NSF CDI-Type II Award (co-PI), $1,999,503, UC Irvine, 10/01/2010-30/09/2016

GlaxoSmithKline Ph.D. studentships, £80,000, Imperial College London, 2010-2013

NVIDIA Academic Partnership Program, Imperial College London, 2013

Google EMEA AndroidEDU Teaching Award, Imperial College London, 2012

USA NSF CAREER Award (PI), $569,905, UC Irvine, 2007-2011
The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the USA National Science Foundation's (NSF) most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations.

Council on Research, Computing and Library Resources (co-PI), $11,803, UCI, 2008-09

Center for Complex Biological Systems Annual Retreat Prizes (PI), $20,000, UCI, 2008

Council on Research, Computing and Library Resources (CORCLR), $5,400, UCI, 2006-2007

U of T Arts and Sciences Fellowship, University of Toronto, Winter 2004

OGS (Ontario Graduate Scholarship), University of Toronto, Jan - Dec 2004
The Ontario Graduate Scholarship Program recognizes academic excellence in graduate studies at the master's and doctoral levels in all disciplines.

IBM CAS (Center for Advanced Studies) Ph.D. Fellowship, U of Toronto, Jan - Dec 2003

NSERC Postgraduate Scholarship A, University of Toronto, 1999-2001
The Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarships Doctoral Program provides financial support to high-calibre students who are engaged in doctoral programs in the natural sciences or engineering.

OGS (Ontario Graduate Scholarship), University of Toronto, 1998-1999

Computer Science Graduate Entrance Award, University of Toronto, 1998-1999

SFU Undergraduate Open Scholarship, Simon Fraser University, Fall 1995 – Spring 1997

SFU Alumni Scholarship, Simon Fraser University, Spring 1997

India Club Scholarship, Simon Fraser University, Spring 1997

SFU Alumni Scholarship, Simon Fraser University, Spring 1996

Motorola Wireless Data Group Scholarship, Simon Fraser University, Fall 1995

NSERC Industrial Undergraduate Student Research Award, Hughes Aircraft, Summer 1995

SFU Alumni Scholarship, Simon Fraser University, Spring 1995

Hughes Aircraft of Canada Scholarship, Simon Fraser University, Fall 1994

Ministry of Education Scholarship, University of Belgrade, Yugoslavia, 1992-1993

Contributions to Research and Development

Citation indices from Google Scholar on April 16, 2026		
	All	Since 2021
Citations	14,865	4,962
h-index	52	33
i10-index	88	68

Technology Transfer:

START-UP: **OmixTerapy**, UAE, founded and directed by Prof. Pržulj, 2026–present

START-UP: **Graphlet Technologies**, ES, founded and directed by Prof. Pržulj, 2021–2024

Books:

B-2 **N. Pržulj**, "Analyzing Network Data in Biology and Medicine: A textbook for biological, medical and computational inter-disciplinary scientists," Cambridge University Press; DOI: https://doi.org/10.1017/9781108377706; Online ISBN 9781108377706; 2019

B-1 **N. Pržulj**, "Uvod u mreže proteinskih interakcija: Pregled naučnog rada od 2004. do 2010.," CET Computer Equipment and Trade; ISBN 978-86-7991-356-2; 2011

Refereed Journal Papers:

Note: the last author of a paper in this research area is the senior author, who led all aspects of the work and obtained funding for the research. Citations in brackets are according to Google Scholar in April 2026.

J-100 A. Xenos, N. Malod-Dognin, and **N. Pržulj**, "Simplifying complex machine learning by linearly separable network embedding spaces," *Transactions on Machine Learning Research*, submitted, https://openreview.net/pdf?id=Hl2xyw0RFA, 2026

J-99 C. Zambrana, N. Malod-Dognin, and **N. Pržulj**, "Pan-viral disease mechanisms unveil the sweet spot for therapeutic intervention," *J Roy Soc Interface*, revised and resubmitted, 2026

J-98 S. Windels, N. Malod-Dognin, and **Nataša Pržulj**, "Combining graphlets and random walks for capturing complex network topology," *Scientific Reports – Nature*, https://doi.org/10.1038/s41598-026-44410-x, March 25, 2026

J-97 **N. Pržulj** and N. Malod-Dognin, "Simplicity within biological complexity," *Bioinformatics Advances*, 5 (1), vbae164, 2025

J-96 Z. Li, S. Windels, N. Malod-Dognin, S. M. Weinberg, M. L. Marazita, S. Walsh, M. D. Shriver, D. W. Fardo, P. Claes, **N. Pržulj**, and K. Van Steen, "Clustering individuals using INMTD: a novel versatile multi-view embedding framework integrating omics and imaging data," *Bioinformatics* 41 (4), btaf12278, 2025

J-95 Mihai Pop, Teresa K Attwood, Judith A Blake, Philip E Bourne, Ana Conesa, Terry Gaasterland, Lawrence Hunter, Carl Kingsford, Oliver Kohlbacher, Thomas Lengauer, Scott Markel, Yves Moreau, William S Noble, Christine Orengo, B F Francis Ouellette, Laxmi Parida, **Nataša Pržulj**, Teresa M Przytycka, Shoba Ranganathan, Russell Schwartz, Alfonso Valencia, Tandy Warnow, "Biological databases in the age of generative artificial intelligence," *Bioinformatics Advances*, Volume 5, Issue 1, vbaf044, https://doi.org/10.1093/bioadv/vbaf044, 2025

J-94 Kate Sokolina, Saranya Kittanakom, Jamie Snider, Max Kotlyar, Pascal Maurice, Jorge Gandía, Abla Benleulmi-Chaachoua, Kenjiro Tadagaki, Atsuro Oishi, Victoria Wong, Ramy H Malty, Viktor Deineko, Hiroyuki Aoki, Shahreen Amin, Zhong Yao, Xavier Morató, David Otasek, Hiroyuki Kobayashi, Javier Menendez, Daniel Auerbach, Stephane Angers, **Nataša Pržulj**, Michel Bouvier, Mohan Babu, Francisco Ciruela, Ralf Jockers, Igor Jurisica, Igor Stagljar, "Author Correction: Systematic protein-protein interaction mapping for clinically relevant human GPCRs," *Molecular Systems Biology* 21 (2), 208-209, 2025

J-93 K. Mihajlovic, N. Malod-Dognin, C. Ameli, A. Skupin, and **N. Pržulj**, "MONFIT: multi-omics factorization-based integration of time-series data sheds light on Parkinson's disease," *NAR Molecular Medicine*, Volume 1, Issue 4, ugae012, October 2024

J-92 S. Soria, A. Xenos, G. Ceddia, N. Malod-Dognin, **N. Pržulj**, "The axes of biology: a novel axes-based network embedding paradigm to decipher the functional mechanisms of the cell," *Bioinformatics Advances*, vbae075, 2024

J-91 K. Mihajlovic, G. Ceddia, N. Malod-Dognin, G. Novak, D. Kyriakis, A. Skupin, **N. Pržulj**, , "Multi-omics integration of scRNA-seq time series data predicts new intervention points for Parkinson's disease," *Scientific Reports - Nature*, 14 (10983), 2024
Journal Impact Factor = 4.6

J-90 A. Maier, M. Hartung, M. Abovsky, K. Adamowicz, G. D. Bader, S. Baier, D. B. Blumenthal, J. Chen, M. L. Elkjaer, C. Garcia-Hernandez, M. Helmy, M. Hoffmann, I. Jurisica, M. Kotlyar, O. Lazareva, H. Levi, M. List, S. Lobentanzer, J. Loscalzo, N. Malod-Dognin, Q. Manz, J. Matschinske, M. Mee, M. Oubounyt, A. R. Pico, R. T. Pillich, J. M. Poschenrieder, D. Pratt, **N. Pržulj**, S. Sadegh, J. Saez-Rodriguez, S. Sarkar, G. Shaked, R. Shamir, N. Trummer, U. Turhan, R. Wang, O. Zolotareva, J Baumbach, "Drugst. One-A plug-and-play solution for online systems medicine and network-based drug repurposing," *Nucleic Acids Research* Webserver Issue, gkae388, 2024 **(Cited 36 times)**
Journal Impact Factor = 14.9

J-89 L. Andreoli, C. Berca, S. Katz, M. Korshevniuk, R. M. Head, K. van Steen, K. Dierickx, F. Melograna, Z. Li, G. Lalli, J. M. Kros, S. Najjary, D. Rozman, A. Walakira, A. Skupin, E. Wilson, F. X. Real, B. Schwikowski, B. Yousefi, **N. Pržulj**, K. Mihajlovic, E. B. Binder, N. Taheri, A. Hryhorzhevska, L. Franke, G. P. Patrinos, K. Karamperis, V. A.P. Martins dos Santos, "Bridging the Gap in Precision Medicine: TranSYS Training Programme for Next-Generation Scientists," *Frontiers in Medicine*, 11, doi.org/10.3389/fmed.2024.1348148, 2024
Journal Impact Factor = 3.9

J-88 S. F.L. Windels, D. Tello Valesco, M. Rotkevich, N. Malod-Dognin, **N. Pržulj**, "Graphlet-based hyperbolic embeddings capture evolutionary dynamics in genetic networks," *Bioinformatics*, 40 (11), btae650, 2024
Journal Impact Factor = 6.931

J-87 M. Zitnik, M. M. Li, A. Wells, K. Glass, D. Morselli Gysi, A. Krishnan, T. M. Murali, P. Radivojac, S. Roy, A. Baudot, S. Bozdag, D. Z. Chen, L. Cowen, K. Devkota, A. Gitter, S. Gosline, P. Gu, P. H. Guzzi, H. Huang, M. Jiang, Z. N. Kesimoglu, M. Koyuturk, J. Ma, A. R. Pico, **N. Pržulj**, T. M. Przytycka, B. J. Raphael, A. Ritz, R. Sharan, Y. Shen, M. Singh, D. K. Slonim, H. Tong, X. H. Yang, B.-J. Yoon, H. Yu, and T. Milenkovic, "Current and future directions in network biology," *Bioinformatics Advances*, Volume 4, Issue 1, 2024, vbae099, 2024 **(Cited 114 times)**

J-86 V. Gureghian, H. Herbst, I. Kozar, K. Mihajlovic, N. Malod-Dognin, G. Ceddia, C. Angeli, C. Margue, T. Randic, D. Philippidou, M. T. Nomigni, A. Hemedan, L.-C. Tranchevent, J. Longworth, M. Bauer, A. Badkas, A. Gaigneaux, A. Muller, M. Ostaszewski, F. Tolle, **N. Pržulj**, S. Kreis, "A multi-omics integrative approach unravels novel genes and pathways associated with senescence escape after targeted therapy in NRAS mutant melanoma," *Cancer Gene Therapy*, 1-16, 2023
Journal Impact Factor = 6.4

J-85 S. Doria-Belenguer, A. Xenos, G. Ceddia, N. Malod-Dognin and **N. Pržulj**, "A functional analysis of omic network embedding spaces reveals key altered functions in cancer," *Bioinformatics*, btad281, 2023 **(Cited 2 times)**
Journal Impact Factor = 6.937

J-84 A. Xenos, N. Malod-Dognin, C. Zambrana and **N. Pržulj**, "Integrated Data Analysis Uncovers New COVID-19 Related Genes and Potential Drug Re-Purposing Candidates," *International Journal of Molecular Sciences*, 24 (2), 1431, 2023 **(Cited 3 times)**
Journal Impact Factor = 6.208

J-83 N. Malod-Dognin, G. Ceddia, M. Gvozdenov, B. Tomic, S. Dunjic Manevski, V. Djordjevic and **N. Pržulj**, "A phenotype driven integrative framework uncovers molecular mechanisms of a rare hereditary thrombophilia," *PLoS ONE*, 18 (4), e0284084, 2023 **(Cited 1 times)**
Journal Impact Factor = 3.752

J-82 S. F. L. Windels, N. Malod-Dognin and **N. Pržulj**, "Identifying cellular cancer mechanisms through pathway driven data integration," *Bioinformatics* 38 (18), 4344-4351, 2022 **(Cited 3 times)**
Journal Impact Factor = 6.937

J-81 M. P. Cifuentes, C. M. Suarez, R. Cifuentes, N. Malod-Dognin, S. Windels, J. F. Valderrama, P. D. Juarez, R. Burciaga Valdez, C. Colen, C. Phillips, A. Ramesh, W. Im, M. Lichtveld, C. Mouton, **N. Pržulj**, D. B. Hood, "Big Data to Knowledge Analytics Reveals the Zika Virus Epidemic as Only One of Multiple Factors Contributing to a Year-Over-Year 28-Fold Increase in Microcephaly Incidence," *International journal of environmental research and public health* 19 (15), 9051, 2022 **(Cited 1 times)**
Journal Impact Factor = 3.39

J-80 S. F. L. Windels, N. Malod-Dognin and **N. Pržulj**, "Graphlet eigencentralities capture novel central roles of genes in pathways," *PLoS ONE*, 17 (1), e0261676, 2022 **(Cited 5 times)**
Journal Impact Factor = 3.752

J-79 R. Hribar, T. Hrga, G. Papa, G. Petelin, J. Povh, **N. Pržulj**, V. Vukasinovic, "Four algorithms to solve symmetric multi-type non-negative matrix tri-factorization problem," *Journal of Global Optimization*, 82 (2), 283-312, 2022
Journal Impact Factor = 2.207

J-78 C. Zambrana, A. Xenos, R. Bottcher, N. Malod-Dognin, and **N. Pržulj**, "Network neighbors of viral targets and differentially expressed genes in COVID-19 are drug target candidates," *Scientific Reports - Nature* 11 (1), 1-15, 2021 **(Cited 4 times)**
Journal Impact Factor = 4.996

J-77 A. Xenos, N. Malod-Dognin, S. Milinkovic, **N. Pržulj**, "Linear functional organization of the omic embedding space," *Bioinformatics,* 37 (21), 3839-3847, 2021 **(Cited 4 times)**
Journal Impact Factor = 6.937

J-76 D.A. Salazar, **N. Pržulj** and C.F. Valencia, "Multi-project and Multi-profile joint Non-negative Matrix Factorization for cancer omic datasets," *Bioinformatics*, 37 (24), 4801-4809, 2021 **(Cited 4 times)**
Journal Impact Factor = 6.937

J-75 T. Gaudelet, N Malod-Dognin, and **N. Przulj**, "Integrative Data Analytic Framework to Enhance Cancer Precision Medicine," *Network and systems medicine* 4 (1), 60-73, 2021 **(Cited 5 times)**

J-74 J. Lugo-Martinez, D. Zeiberg, T. Gaudelet, N Malod-Dognin, **N. Przulj**, and P. Radivojac, "Classification in biological networks with hypergraphlet kernels," *Bioinformatics*, btaa768, https://doi.org/10.1093/bioinformatics/btaa768, 2020 **(Cited 49 times)**
Journal Impact Factor = 6.937

J-73 S. Doria-Belenguer, M. K. Youssef, R. Bottcher, N. Malod-Dognin, and **N. Przulj**, "Probabilistic Graphlets Capture Biological Function in Probabilistic Molecular Networks," *Bioinformatics* 36 (Supplement 2) i804-812, 2020; also in Proceedings of European Conference on Computational Biology (ECCB), 2020 **(Cited 5 times)**
Journal Impact Factor = 6.937

J-72 N. Malod-Dognin, V. Pancaldi, A. Valencia and **N. Przulj**, "Chromatin network markers of leukemia," *Bioinformatics* 36 (Supplement 1), i455-i463, Proceeding of the *International Conference on Intelligent Systems for Molecular Biology (ISMB) 2020*, July 2020 **(Cited 4 times)**
Journal Impact Factor = 6.937

J-71 T. Gaudelet, N. Malod-Dognin, J. Sanchez-Valle, V. Pancaldi, A. Valencia and **N. Przulj**, "Unveiling new disease, pathway, and gene associations via multi-scale neural network," *PLoS ONE* 15:4, e0231059, 2020 **(Cited 37 times)**
Journal Impact Factor = 3.752

J-70 H. Hemingway *et al.*, A national initiative in data science for health: an evaluation of the UK Farr Institute, *International journal of population data science*, 5 (1), 2020 **(Cited 5 times)**
Journal Impact Factor = 1.35

J-69 N. Perin, V. Rep, I. Sovic, S. Juricic, D. Selgrad, M. Klobucar, **N. Przulj**, C. L. Gupta, N. Malod-Dognin, S. Kraljevic Pavelic and M. Hranjec, "Antiproliferative activity and mode of action analysis of novel amino and amido substituted phenantrene and naphtho[2,1-b]thiophene derivatives," *European Journal of Medicinal Chemistry* 185, 111833, 2020 **(Cited 11 times)**
Journal Impact Factor = 7.088

J-68 N. Malod-Dognin, J. Petschnigg, S. F. L. Windels, J. Povh, H. Hemmingway, R. Ketteler and **N. Przulj**, "Towards a data-integrated cell," *Nature Communications* 10, Article number: 805, 2019 **(Cited 66 times)**
Journal Impact Factor = 17.69

J-67 S. Windels, N. Malod-Dognin and **N. Przulj**, "Graphlet Laplacians for topology-function and topology-disease relationships," *Bioinformatics*, 35 (24), 5226-5234, 2019 **(Cited 10 times)**
Journal Impact Factor = 6.937

J-66 N. Malod-Dognin and **N. Przulj**, "Functional geometry of protein interactomes," *Bioinformatics*, 35 (19), 3727-3734, 2019 **(Cited 7 times)**
Journal Impact Factor = 6.937

J-65 T. Gaudelet, N. Malod-Dognin and **N. Przulj**, "Higher-order molecular organization as a source of biological information," *Bioinformatics*, 34, 2018, i944-i953, ECCB 2018 **(Cited 38 times)**
Journal Impact Factor = 6.937

J-64 S. Kraljevic Pavelic, J. Simovic Medica, D. Gumbarevic, A. Filosevic, **N. Przulj**, and K. Pavelic, "Critical review on zeolite clinoptilolite safety and medical applications in vivo," *Frontiers in Pharmacology*, 9:1350. doi: 10.3389/fphar.2018.01350, 2018 **(Cited 188 times)**
Journal Impact Factor = 5.51

J-63 N. Malod-Dognin, J. Petschnigg and **N. Przulj**, "Precision medicine – A promising, yet challenging road lies ahead," *Current Opinion in Systems Biology*, Available online October 28, 2017 **(Cited 25 times)**
Journal Impact Factor = 2.89

J-62 N. Malod-Dognin and **N. Przulj**, "Omics data complementarity underlines functional cross-communication in yeast", *Journal of Integrative Bioinformatics*, 14(3), 2017
Journal Impact Factor = 3.66

J-61 N. Malod-Dognin, K. Ban and **N. Przulj**, "Unified Alignment of Protein-Protein Interaction Networks", *Scientific Reports - Nature*, 7:953, 2017 **(Cited 60 times)**
Journal Impact Factor = 4.996

J-60 K. Sokolina, S. Kittanakom, J.Snider, M. Kotlyar, P. Maurice, J. Gandia, A. Benleulmi-Chaachoua, K. Tadagaki, V. Wong, R. H. Malty, V. Deineko, H. Aoki, S. Amin, L. Riley, Z. Yao, X. Morato, S. Rahmati, H. Kobayashi, J. Menendez, D. Auerbach, S. Angers, **N. Przulj**, M. Bouvier, M. Babu, F. Ciruela, R. Jockers, I. Jurisica, and I. Stagljar, "Systematic protein-protein interaction mapping for clinically-relevant human GPCRs," *Molecular Systems Biology*, 13:918, 2017 **(Cited 93 times)**
Journal Impact Factor = 12.74

J-59 O. Yaveroglu, N. Malod-Dognin, T. Milenkovic, and N. Przulj, "Rebuttal to the Letter to the Editor in response to the paper: Proper evaluation of alignment-free network comparison methods," *Bioinformatics*, 33 (7): 1107-1109, 2017
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Refereed Posters:

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Research Software:

1. All Prof. Pržulj's research software is freely available for academic use at https://life.bsc.es/iconbi/group-page.html. It includes:
   (a) six network aligners,
   (b) six alignment-free network comparison measures,
   (c) five natwork analytics software packages, and
   (d) one protein structure comparison tool.

   Additional software packages, also free for academic use are:
2. GraphFusion, https://github.com/CarlosJesusGH/GraphFusion, part of Drugst.One, https://drugst.one/ (paper J-90 above).
3. ergm.graphlets R package that enables the use of graphlet properties within the exponential random graph modeling, ergm, package of R (paper J-49 above).
4. GraphCrunch[5,6], published in refereed journal papers J-26 and J-12 listed above and downloaded over 7,000 times since November, 2010.

[5]https://life.bsc.es/iconbi/graphcrunch2/index.html
[6]https://life.bsc.es/iconbi/graphcrunch/index.html

Press coverage (selection):

PC-24 Live interview for The Morning Program of Radio Television Serbia 1 (RTS-1) on the topic of "Who will first be replaced by AI," August 6, 2025 (5,153 views): https://www.youtube.com/watch?v=FNOsY9pEVB4

PC-23 "What is the actual position of women in IT and technology industry," interview for BIZLife Business News, April 27, 2025: https://bizlife.rs/kakav-je-zapravo-polozaj-zena-u-it-i-tehnoloskoj-industriji/

PC-22 Live interview for The Morning Program of Radio Television Serbia 1 (RTS-1) from Kopaonik Business Forum, March 5, 2025 (1.9K views): https://www.youtube.com/watch?v=jtJumlveO1g

PC-21 "Today's AI will not exist in 5 years," interview for Euro News Serbia, March 3, 2025: https://www.euronews.rs/biznis/biznis-vesti/159672/natasa-przulj-ai-ce-postati-superiorniji-u-buducnosti/vest

PC-20 "It is realistic to live to 120," interview for Bloomberg Adria TV, April 11, 2024: https://rs.bloombergadria.com/bloomberg-adria-tv/bloomberg-adria-tv/56290/zivot-ce-trajati-120-godina-i-to-je-realno/news

PC-19 "Barcelona, a city for a lifetime project," May 19, 2022: https://youtu.be/IfL_5McocGI

PC-18 "ERC Proof of Concept Grant Awardee from BSC to Commercialize a Data Analytics Platform," HPC Wire, April 27, 2020

PC-17 "BSC: Artificial intelligence allows for identification of new cancer genes," Press release, ScienceBusiness, February 21, 2019

PC-16 "La inteligecia artificial permite hallar 63 nuevos genes asociados al cancer," Diario de Teruel, February 20, 2019

PC-15 "AI Allows for Identification of New Cancer Genes," HPC Wire, February 19, 2019

PC-14 "Health: Learning from big data how life works," Interview ERC grantee Natasa Przulj, Professor of Biomedical Data Science at UCL, The European Research Council Magazine, September 20, 2018

PC-13 "Mining Big Data for precious medical insight," The European Research Council, Projects & Figures, September 10, 2018

PC-12 Computer Science News: "ERC Consolidator Grant for Natasa Przulj," UCL Computer Science Department, December 12, 2017

PC-11 "UCL-based researcher wins ERC Consolidator Grant," Scitech Europa, December 12, 2017

PC-10 "Conquering Cancer," by Mike Hall, ITNOW (Autumn 2016) 58 (3): 40-41 doi:10.1093/itnow/bww076 (Oxford Journals; The British Computer Society), September 2016

PC-9 "Computing Versus Prostate Cancer," by Mike Hall, MBCS CITP, who explains how Natasaa Przulj's BCS Needham Lecture on data mining has led to a potentially groundbreaking research project that could transform prostate cancer diagnosis and treatment. ITNOW (Autumn 2015) 57 (3): 54-55 doi:10.1093/itnow/bwv080 (Oxford Journals; The British Computer Society), September 2015

PC-8 Vecernje Novosti, Belgrade, Serbia: Srpkinja najbolji racunarski istrazivac u Britaniji. March 24, 2014

PC-7 The British Computer Society (BCS) Academy of Computing Press Release, "Mining Biological Networks - Dr Nataša Pržulj,"[7] Needham Lecture on 19 November 2014 at The Royal Society in London

PC-6 45-minute video interview with Henry Tucker, The British Computer Society (BCS), about my work, what it means for pharmaceuticals, health informatics and women in IT, 2014[8]

PC-5 The British Computer Society (BCS) Academy of Computing Press Release, "Nataša Pržulj announced as BCS Roger Needham Award 2014 Award,"[9] March 7, 2014

PC-4 An interview for BioTechniques Journal of Life Sciences Methods, titled "Finding Connections Between Genes and Diseases,"[10] December 12, 2013

PC-3 An interview for European Commission Community Research and Development Information Service (CORDIS) News, titled "Beyond genetics: mining biological networks for new treatments for disease,"[11] October 11, 2013

PC-2 A television interview about my scientific work was shown on *Enter TV*, Belgrade, Serbia, on September 28, 2007

PC-1 An interview about my scientific work was published in the daily newspaper *Borba*, Belgrade, Serbia, on September 24, 2007

Invited Talks:

IT-223 **N. Pržulj**, "Multi-Omics Data Fusion for Precision Medicine and Therapeutics," Invited Talk at the Pediatric Research Institute (IRP – Città della Speranza), Padova, Italy, February 16, 2026

IT-222 **N. Pržulj**, "Longevity via Predictive Patient Analytics and Precision Therapeutics from Multi-Omics Data," Invited Talk at the "AI Innovation Day Healthcare," MBZUAI, Abu Dhabi, UAE, November 12, 2025

IT-221 **N. Pržulj**, "Predictive Patient Analytics and Precision Therapeutics from Multi-Omics Data," Invited Talk at the "MBZUAI Workshop on Data, Learning and Biological Problems," MBZUAI, Abu Dhabi, UAE, November 10, 2025

IT-220 **N. Pržulj**, "Predictive Patient Analytics and Precision Therapeutics from Multi-Omics Data," Invited Talk at MBZUAI AI Innovation Day CCAD, CCAD, Abu Dhabi, UAE, October 8, 2025

IT-219 **N. Pržulj**, "AI for Mining Multi-Omic Data in Precision Medicine and Pharmacology," Invited Talk at the 20th conference on Computational Intelligence methods for Bioinformatics and Biostatistics (CIBB), Milano, Italy, September 10-12, 2025

IT-218 **N. Pržulj**, "AI for Embedding Multi-Omic Networks to Simplify Precision Medicine," Invited Talk at "BioNetworks: Modeling, Algorithms, and Statistics Workshop," COST action CA21169 (DYNALIFE), Cetinje, Montenegro, July 8, 2025

[7] http://www.bcs.org/content/conWebDoc/53611

[8] http://www.bcs.org/content/conWebDoc/52305

[9] http://academy.bcs.org/news/nataša-pržulj-announced-bcs-roger-needham-award-2014-award

[10] http://www.biotechniques.com/news/Finding-Connections-Between-Genes-and-Diseases/biotechniques-348720.html#.UqsQX-KMRuZ

[11] http://cordis.europa.eu/fetch?CALLER=EN_NEWS&ACTION=D&RCN=36151

IT-217 **N. Pržulj**, "Explainable AI for Sustainable Exploitation of Multi-Omic Data in Precision Medicine and Pharmacology," Invited Talk, UAE Drug Discovery and Biotech Network Inaugural Meeting, Abu Dhabi, UAE, June 4, 2025

IT-216 **N. Pržulj**, "AI for Embedding Multi-Omic Networks to Simplify Precision Medicine," Keynote Talk, NetBioMed Satellite Conference of NetSci Conference, Maastricht University, The Netherlands, June 2, 2025

IT-215 **N. Pržulj**, "New AI Methods for Simplifying Multi-Omics Data Analyses in Precision Medicine," Invited Talk, International Conference NONLINEARITY, NONLOCALITY and ULTRAMETRICITY, the Serbian Academy of Sciences and Arts (SANU), Belgrade, Serbia, May 28, 2025

IT-214 **N. Pržulj**, "New AI for Multi-Omics Data Fusion to Personalize Medicine," Plenary Talk, Using Artificial Intelligence to Examine Astronaut Multi-omics Data for the Identification of Biomarkers to Enhance Astronaut Health and Develop Personalized Medicine Approaches on Earth (ASTROAIMED) Dubai Health, Mohammed Bin Rashid University of Medicine and Health Sciences Dubai Healthcare City, Dubai, UAE, May 22, 2025

IT-213 **N. Pržulj**, "AI for Multi-Omics Data Fusion to Personalize Medicine," Invited Talk, 2025 Helenic Bioinformatics Conference, Thesaloniki, Greece, May 17, 2025

IT-212 **N. Pržulj**, "AI for Multi-Omics Data Fusion to Personalize Medicine," Invited Talk, 2025 China-West Asia-East Europe Bioinformatics Workshop, Zhejiang University, China, April 19, 2025

IT-211 **N. Pržulj**, Panelist at "The role of artificial intelligence in business (Uloga vestacke inteligencije u biznisu)" panel, Kopaonik Business Forum (KBF), Kopaonik, Serbia, March 3, 2025

IT-210 **N. Pržulj**, Panelist at the panel discussion titled "Innovation through Translational Research" organized by The Department of Health Abu Dhabi, Arab Health 2025, Dubai, UAE, January 28, 2025

IT-209 **N. Pržulj**, "AI for Enabling Precision Medicine," Plenary Talk, Artificial Intelligence Conference, Serbian Academy of Sciences and Arts (SANU), Belgrade, Serbia, December 26-27, 2024

IT-208 **N. Pržulj**, "AI Approaches for Archeological Data Analyses," Invited Talk, ERC Projects DREAM and COREX Meeting, UCL Institute of Archaeology, University College London, London, UK, October 28, 2024

IT-207 **N. Pržulj**, "AI Meets Multi-Omics: Enabling Precision Medicine," Seminar, Barcelona Collaboratorium for Modelling and Predictive Biology, Barcelona, Spain, October 17, 2024

IT-206 **N. Pržulj**, "AI Meets Multi-Omics: Enabling Precision Medicine," Seminaires de Biologie, Institut Curie, Paris, France, October 15, 2024

IT-205 **N. Pržulj**, "AI Meets Multi-Omics: Enabling Precision Medicine," Institute for Molecular Genetics and Genetic Engineering (IMGGE) of the University of Belgrade, Belgrade, Serbia, September 25, 2024

IT-204 **N. Pržulj**, "Multi-Omics Data Fusion for Enabling Precision Medicine," 22nd International Conference on Numerical Analysis and Applied Mathematics 2024 (ICNAAM 2024), Heraklion, Crete, Greece, September 11-17, 2024

IT-203 **N. Pržulj**, "Multi-Omics Data Fusion for Enabling Precision Medicine," From Solid State to Biophysics XI, Dubrovnik, Croatia, June 8-15, 2024

IT-202 **N. Pržulj**, "Multi-Omics Data Fusion for Enabling Precision Medicine," Keynote at XI Complexitat Day, Complexitat.cat, Campus UOC, Barcelona, Spain, June 5-6, 2024

IT-201 **N. Pržulj**, "Multi-Omics Data Fusion for Enabling Precision Medicine," Keynote at The Human Digital Twin Summer School Barcelona, Spain, June 3-7, 2024

IT-200 **N. Pržulj**, "Multi-Omics Data Fusion for Enabling Precision Medicine," French Regional Conference on Complex Systems FRCCS 2024, Montpellier, France, May 29-31, 2024

IT-199 **N. Pržulj**, "Multi-Omics Data Fusion for Enabling Precision Medicine," Mohamed bin Zayed University of Artificial Intelligence (MBZUAI), United Arab Emirates, April 18, 2024

IT-198 **N. Pržulj**, "Multi-Omics Data Fusion for Enabling Precision Medicine," Luxembourg Institute of Health, Luxembourg, April 9, 2024

IT-197 **N. Pržulj**, a panelist at "Panel 12: Artificial Intelligence: The Future Has Already Begun," Kopaonik Business Forum, Kopaonik, Serbia, March 3-6, 2024

IT-196 **N. Pržulj**, "AI for multi-omics data fusion to enable disease-agnostic precision medicine," Conference on "AI+ML: Automating the discovery of patterns in biomedical data," IRB Barcelona - Institute for Research in Biomedicine, Barcelona, Spain, December 11, 2023

IT-195 **N. Pržulj**, "AI for Multi-Omics Data Fusion Enables Precision Medicine," Artificial Intelligence Seminar of the Mathematics Institute of the Serbian Academy of Sciences and Arts (SANU), Belgrade, Serbia, December 6, 2023

IT-194 **N. Pržulj**, a panelist at the panel: "Artificial Intelligence and Our Human Future," Palace of the Arts Madlena, Belgrade, Serbia, November 24, 2023

IT-193 **N. Pržulj**, "Omics Data Fusion for Understanding Molecular Complexity Enabling Precision Medicine," Computing and Applied Mathematics Seminar of the Mathematics Institute of the Serbian Academy of Sciences and Arts (SANU), Belgrade, Serbia, October 5, 2023

IT-192 **N. Pržulj**, "From Molecular Complexity to AI-Enabled Omics Simplicity in Precision Medicine," Keynote at the German Conference on Bioinformatics, Hamburg, Germany, Sept 12-14, 2023

IT-191 **N. Pržulj**, "From Molecular Complexity to AI-Enabled Omics Simplicity in Precision Medicine," Keynote at NetBio meeting of ISMB/ECCB 2023, Lyon, France, July 24, 2023

IT-190 **N. Pržulj**, "From Molecular Complexity to AI-Enabled Omics Simplicity in Precision Medicine," Keynote at NetSci 20203, Vienna, July 10-14, 2023

IT-189 **N. Pržulj**, "AI for Understanding Molecular Complexity for Precision Medicine," ELLIS talk at the Institute of Science and Technology Austria, Vienna, Austria, October 18, 2022

IT-188 **N. Pržulj**, "Understanding Molecular Complexity in Precision Medicine," From Algorithms to Discovery in Genome-Scale Biology and Medicine Conference at the Computational Innovation and Data-Driven Biology Summer Program, Simons Institute for the Theory of Computing, University of California Berkeley, Berkeley, CA, USA, July 5-8, 2022

IT-187 **N. Pržulj**, "Machine Learning for Understanding Molecular Complexity in Precision Medicine," From Solid State to BioPhysics X: From Basic to Life Sciences, Cavtat, Dubrovnik, Croatia, June 11–18, 2022

IT-186 **N. Pržulj**, "Biological Networks," Complex Networks: Theory, Methods, and Applications Summer School of Lake Como School of Advanced Studies, Lake Como, Italy, May 16–20, 2022

IT-185 **N. Pržulj**, "Machine Learning for Understanding Molecular Complexity in Precision Medicine," El Congreso Colombiano de Bioinformatica y Biologia Computacional (CCBCOL) VI, Cartagena, Colombia, March 28 – April 1, 2022

IT-184 **N. Pržulj**, "AI for understanding molecular complexity in precision medicine," Lecture series: Next-generation of multi-omics research: going to the single cell, University of Luxembourg, February 23, 2022

IT-183 **N. Pržulj**, "AI for understanding molecular complexity in precision medicine," INRIA, France, January 25, 2022

IT-182 **N. Pržulj**, "Network data analytics in biology and medicine: towards new paradigms," Data Analysis for Precison medicine, TranSYS ITN Training School, Paris, France, November 22-26, 2021

IT-181 **N. Pržulj**, "HPC in Patient-Centric Fusion of Highly Dimensional Bio-Medical Data," Latin American High Performance Computing Conference, CARLA 2021, University of Guadalajara, Mexico, October 4-8, 2021

IT-180 **N. Pržulj**, "Network data analytics in biology and medicine: towards new paradigms," Dagstuhl Seminar on Higher-Order Graph Models: From Theoretical Foundations to Machine Learning, Schloss Dagstuhl – Leibniz-Zentrum fur Informatik, Oktavie-Allee, 66687 Wadern, Germany, August 29 to September 1, 2021

IT-179 **N. Pržulj**, "Network data fusion and topological analysis identifies the neighbours of viral targets and differentially expressed genes in Covid-19 as drug target candidates," Belgrade BioInformatics Conference, June 21-25, 2021

IT-178 **N. Pržulj**, "Between viral targets and differentially expressed genes in COVID-19: the sweet spot for therapeutic intervention," Keynote at the "Systems Biology: From large datasets to biological insight," Wellcome Genome Campus Advanced course on Systems biology, EMBL-EBI Wellcome Genome Campus, Hinxton, UK, June 21, 2021

IT-177 **N. Pržulj**, "Between viral targets and differentially expressed genes in COVID-19: the sweet spot for therapeutic intervention," Keynote at Winter Symposium on Machine Learning Frontiers in Precision Medicine, ETH Zurich, March 11, 2021

IT-176 **N. Pržulj**, "Between viral targets and differentially expressed genes in COVID-19: the sweet spot for therapeutic intervention," Bioinformatics Research Seminar at the Faculty of Mathematics, University of Belgrade, February 10, 2021

IT-175 **N. Pržulj**, "Untangling Biological Complexity: From Omics Data to Data-Integrated Medicine," Keynote at Complex Networks 2020, The 9th International Conference on Complex Networks and their Applications, Madrid, December 1-3, 2020

IT-174 **N. Pržulj**, "Untangling Biological Complexity: From Omics Data to Data-Integrated Medicine," Seminar at the Department of Biology and Bioengineering, Chalmers University of Technology in Gothenburg, Sweden, November 18, 2020

IT-173 **N. Pržulj**, "Untangling Biological Complexity: From Omics Data to Data-Integrated Medicine," Seminar at Mathematics Institute of the Serbian Academy of Sciences and Arts (SANU), Belgrade, Serbia, October 8, 2020

IT-172 **N. Pržulj**, "Analysing Network Data in Biology and Medicine: Enabling Data-Integrated Medicine," Keynote at SysBioCancer EMBO/Curie course, Paris, France, September 28, 2020

IT-171 **N. Pržulj**, "Data for Health: Enabling Data-Integrated Medicine," European Research and Innovation Days Conference, Brussels, Belgium, September 23, 2020

IT-170 **N. Pržulj**, "Untangling Biological Complexity: from Omics Data to New Biomedical Knowledge," Advances in Computational Biology Conference, Barcelona, Spain, November 29, 2019

IT-169 **N. Pržulj**, "Untangling Biological Complexity: from Omics Data to New Biomedical Knowledge," Opening Keynote at the VI Congress of the Serbian Genetic Society, Vrnjacka Banja, Serbia, October 13-17, 2019

IT-168 **N. Pržulj**, "Computational challenges for data-driven medicine," Plenary Talk, Alps-Adriatic Rectors' Conference (AARC) Ph.D. Scientific Conference, University of Rijeka, Croatia, September 19-20, 2019

IT-167 **N. Pržulj**, "Data-Driven Medicine," Keynote Talk, 13th Spanish Supercomputing Network (RES) Users Conference, Zaragoza, Spain, September 18-19, 2019

IT-166 **N. Pržulj**, "How I obtained my ERC grant," Invited Talk at the workshop on 'ERC Funding Opportunities: Supporting excellent researchers all over Europe,' Rectorate of the University of Belgrade, Serbia, September 5, 2019

IT-165 **N. Pržulj**, "Integrative Topology Uncovers New Biology from Heterogeneous Omics Data," Keynote Talk, 31st International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2019), Ljubljana, Slovenia, July 1-5, 2019

IT-164 **N. Pržulj**, "Towards Data-Integrated Medicine," Keynote Talk, IGTP (Germans Trias i Pujol Research Institute) Scientific Retreat of the Can Ruti Campus, BCIN (Centro Internacional de Negocios de Badalona), Badalona, Spain, June 18, 2019

IT-163 **N. Pržulj**, "Towards Data-Integrated Medicine," Keynote Talk, 32nd IEEE CBMS International Symposim on Computer-Bases Medical Systems (IEEE-CBMS), Cordoba, Spain, June 4-7, 2019

IT-162 **N. Pržulj**, "New Algorithms for Unveiling Biomedical Knowledge from Heterogeneous Omics Data ," Keynote Talk, International Conference on Medical and Biological Engineering (CMBEBIH 2019), Banja Luka, Republic of Srpska, BIH, May 16-18, 2019

IT-161 **N. Pržulj**, "Towards a Data-Integrated Cell," Plenary Talk, Barcelona Biomed Plenary Seminars, Institute for Research in Biomedicine (IRB Barcelona), Spain, May 10, 2019

IT-160 **N. Pržulj**, "Towards Data-Integrated Cell," 3nd workshop on Biomedical data fusion and non-negative matrix factorization, University of Ljubljana, Faculty of mechanical engineering, Slovenia, April 16-17, 2019

IT-159 **N. Pržulj**, "Integrative Topology Uncovers New Biology from Heterogeneous Omics Data," Life Sciences Seminar Series, Barcelona Supercomputing Center, Spain, March 14, 2019

IT-158 **N. Pržulj**, "Integrative Topology Uncovers New Biology from Heterogeneous Omics Data," PIMS-SFU Applied & Computational Math Seminar Series, Simon Fraser University, Canada, March 29, 2019

IT-157 **N. Pržulj**, "Integrative Topology Uncovers New Biology from Heterogeneous Omics Data," Network Biology Meeting, Cold Spring Harbor Lab, NY, USA, March 19-23, 2019

IT-156 **N. Pržulj**, "Integrative Topology Uncovers New Biology from Heterogeneous Omics Data," Life Sciences Seminar Series, Barcelona Supercomputing Center, Spain, March 14, 2019

IT-155 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Bioinspired analysis of dynamical systems and Protein network analysis workshop, Esztergom, Hungary, January 10-12, 2019

IT-154 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Complex Networks Seminar, Computer Science Department, UPMC - Sorbonne University, Paris, France, December 7, 2018

IT-153 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," JnJ Innovation Center, London, UK, November 1, 2018

IT-152 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Department of Biological Sciences-DCB Seminar, University Los Andes, Bogota, Colombia, October 18, 2018

IT-151 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," School of Engineering Seminar, University Los Andes, Bogota, Colombia, October 17, 2018

IT-150 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," SISAP and SPIRE 2018, Lima, Peru, October 7-11, 2018

IT-149 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," CeBiB, University of Chile, Santiago, Chile, October 4, 2018

IT-148 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Volterra lecture at the Norwegian University of Science and Technology in Trondheim, Norway, September 28, 2018

IT-147 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," UCL AI in Health Workshop, UCL, UK, September 19, 2018

IT-146 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Belgrade BioInformatics Conference 2018, Belgrade, Serbia, June 18-22, 2018

IT-145 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," From Solid State to Biophysics IX, Cavtat, Croatia, June 16-23, 2018

IT-144 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Keynote at NetMed'18 meeting of NetSci'18, Paris, France, June 11, 2018

IT-143 **N. Pržulj**, Two lectures at Cyprus Training School on systems bioinformatics towards network medicine, "Network Topology and Biological Function" and "Mining the Integrated Connectedness of Biomedical Systems", The Cyprus Institute of Neurology and Genetics, Nicosia, Cypres, May 29 to June 1, 2018

IT-142 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Queen's University Belfast, UK, May 18, 2018

IT-141 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Colloquium at Barcelona Supercomputing Center, Spain, April 18, 2018

IT-140 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Informatics Department, Technical University Munich, Germany, March 29, 2018

IT-139 **N. Pržulj**, "Data-Driven Medicine," Faculty of Health and Medical Sciences, University of Surrey, UK, March 26, 2018

IT-138 **N. Pržulj**, "Mining the Integrated Connectedness of Biomedical Systems," Seminar at Barcelona Supercomputing Center, Spain, March 7, 2018

IT-137 **N. Pržulj**, "Data-Driven Medicine," Informatics Department, University of Bern, Switzerland, February 16, 2018

IT-136 **N. Pržulj**, "Heuristic Algorithms for Data-Driven Biomedicine," AlgoUK Workshop, King's College London, UK, February 6, 2018

IT-135 **N. Pržulj**, "Data-Driven Biomedical Science," KAUST, Saudi Arabia, October 30, 2017

IT-134 **N. Pržulj**, "Data-Driven Biomedical Science," 160th IEEE Meeting in Novi Sad, Faculty of Technical Sciences Novi Sad, Serbia, September 21, 2017

IT-133 **N. Pržulj**, "Data-Driven Medicine," MCM/WS Conference on Systems Medicine, Valletta, Malta, September 13, 2017

IT-132 **N. Pržulj**, "Data-Driven Medicine," The Department of Biosystems Science and Engineering, ETH Zurich, Switzerland, August 30, 2017

IT-131 **N. Pržulj**, "Data-Driven Biomedical Science," International Signalling Workshop, Visegrad, Hungary, July 16-20, 2017

IT-130 **N. Pržulj**, "Data-Driven Medicine," Biomedical Engineering, University of Calgary, Canada, July 10, 2017

IT-129 **N. Pržulj**, "Data-Driven Medicine," Institute of Mathematics of the Serbian Academy of Sciences and Arts, Belgrade, Serbia, June 27, 2017

IT-128 **N. Pržulj**, "Data-Driven Medicine," **Keynote talk** at Integrative Bioinformatics 2017, Odense, Denmark, June 22-24, 2017

IT-127 **N. Pržulj**, "Mining Biological Networks," The European Human Genetics Conference (ESHG) 2017, session on "Network Medicine," Copenhagen, Denmark, May 27-30, 2017

IT-126 **N. Pržulj**, "Data-Driven Medicine," Inaugural Lecture, University College London, UK, April 5, 2017

IT-125 **N. Pržulj**, "Predictive Integration of Networked Big Data: From Biology to Economics," Seminar at the Department of Computing, Simon Fraser University, Vancouver, Canada, February 17, 2017

IT-124 **N. Pržulj**, "Predictive Integration of Networked Big Data," Banff International Research Station for Mathematical Innovation and Discovery (BIRS) Workshop on Statistical and Computational Challenges in Large Scale Molecular Biology, Canada, March 26-31, 2017

IT-123 **N. Pržulj**, "Data-Driven Medicine," School of Biological Sciences Seminar, University of Essex, UK, March 15, 2017

IT-122 **N. Pržulj**, "Data-Driven Medicine," **Keynote talk** at the celebration of the 20th anniversary of the Pacific Institute for the Mathematical Sciences (PIMS) at Simon Fraser University (SFU), Vancouver, Canada, November 25, 2016

IT-121 **N. Pržulj**, "Data-Driven Medicine," CSH Workshop on Future directions in medical data science, Vienna, Austria, October 10-11, 2016

IT-120 **N. Pržulj**, "Data-Driven Medicine," MGMS Big Data in Biomolecular Systems, London at School of Pharmacy, UCL, London, UK, September 9, 2016

IT-119 **N. Pržulj**, "Patient-Specific Network Data Fusion for Stratification, Biomarker Discovery and Personalized Treatment," NetBio/SysMod COSI Session, Intelligent Systems for Molecular Biology (ISMB), Orlando, FL, USA, July 10-12, 2016

IT-118 **N. Pržulj**, "Patient-Specific Network Data Fusion for Stratification, Biomarker Discovery and Personalized Treatment," **Keynote Talk**, Network Biology SIG at Intelligent Systems for Molecular Biology (ISMB), Orlando, FL, USA, July 8, 2016

IT-117 **N. Pržulj**, "Data-Driven Medicine," Symposium on Medical Informatics, University of Zurich, Switzerland, July 7, 2016

IT-116 **N. Pržulj**, "Network Data Integration Enables Precision Medicine," **Plenary Talk**, From Solid State to BioPhysics VIII: From Basic to Life Sciencces, Cavtat, Croatia, June 4-11, 2016

IT-115 **N. Pržulj**, "Real-World Data Analytics: from Biomedical to Economic Networked Data," Public Lecture at The Real Time Club, London, UK, April 19, 2016

IT-114 **N. Pržulj**, "Network Data Integration Enables Precision Medicine," Network Biology Workshop, Simons Institute for the Theory of Computing, UC Berkeley, CA, USA, April 11-15, 2016

IT-113 **N. Pržulj**, "Predictive Integration of Networked Big Data: From Biology to Economics," Generalized Network Structures and Dynamics Workshop, Mathematical Biosciences Institute, Columbus, OH, USA, March 21-25, 2016

IT-112 **N. Pržulj**, "Network Data Integration Enables Precision Medicine and Furthers Economics," Public Lecture at OSSA Celebration of 160th Anniversary of Nikola Tesla's Birth, Cambridge University, UK, February 19, 2016

IT-111 **N. Pržulj**, "Network Data Integration Enables Precision Medicine," Theodore L. Badger Lecture in Network Medicine, Channing Division of Network Medicine at Brigham and Women's Hospital, Harvard University, USA, December 15, 2015

IT-110 **N. Pržulj**, "Mining Real-World Networks: from Biology to Economics," Institute for Complex Systems Simulations (ICSS), Complex Systems Seminar Series, University of Southamton, UK, December 10, 2015

IT-109 **N. Pržulj**, Distinguished Lecture at Computer Science Department, University College London, UK, October 9, 2015

IT-108 **N. Pržulj**, "Predictive Integration of Networked Big Data: From Biology to Economics," Workshop on Mathematical Data Science, Serbian Academy of Sciences and Art (SASA), Belgrade, Serbia, June 22, 2015

IT-107 **N. Pržulj**, "Network Data Integration Enables Precision Medicine," Odense eScience Symposium on Computational Biology, Odense, Denmark, June 11, 2015

IT-106 **N. Pržulj**, "Mining real-world networks: from biology to economics," **Keynote Talk** at NetSci 2015, International School and Conference on Network Science, Zaragoza, Spain, June 1-5, 2015

> **NetSci** is the leading conference on Network Science bringing together leading researchers, practitioners, and teachers in network science.

IT-105 **N. Pržulj**, "Network Data Integration Enables Precision Medicine," Network-enabled Personalized Medicine (NetMed) workshop at NetSci 2015, Zaragoza, Spain, June 1-5, 2015

IT-104 **N. Pržulj**, "Vision of Data Science," Faculty of Science Seminar, University of British Columbia, Canada, May 26, 2015

IT-103 **N. Pržulj**, "Real-World Data Analytics: from Biology to Economics," Research Seminar at the Computer Science Department, University of British Columbia, Canada, May 25, 2015

IT-102 **N. Pržulj**, "Mining real-world networks: from biology to economics," Research Seminar at the Computer Science Department, University of Leeds, UK, March 25, 2015

IT-101 **N. Pržulj**, "Mining real-world networks: from biology to economics," School Research Seminar at Computer Science, University of Manchester, UK, February 17, 2015

IT-100 **N. Pržulj**, **Roger Needham lecture**[12], "Mining biological networks," **The Royal Society**, 6-9 Carlton House Terrace, London, UK, November 19, 2014

IT-99 **N. Pržulj**, "Mining network data" **Keynote Talk** at ITIS 2014, Smarjeske toplice, Slovenia, November 6, 2014

IT-98 **N. Pržulj**, **Keynote Talk** at ECCB'14 workshop on *Drug Development 2.0 – Computational drug repurposing, target discovery and translational research,* Strasbourg, France, September 7, 2014

IT-97 **N. Pržulj**, "Mining real-world networks: from biology to economics," Microsoft Research, Redmond, WA, USA, August 14, 2014

IT-96 **N. Pržulj**, "Revealing the Hidden Language of Complex Networks," Young Academy of Europe Annual Meeting, Barcelona, Spain, July 15, 2014

IT-95 **N. Pržulj**, "Mining Biological Networks," **Plenary Talk** at From Solid State To Bio Physics 2014, Cavtat, Croatia, June 7-14, 2014

IT-94 **N. Pržulj**, "Mining Biological Networks: Network Integration," Quantitative Biology Conference, The Francis Crick Institute, London, UK, June 5, 2014

IT-93 **N. Pržulj**, "Mining Biological Networks," Johnson & Johnson, Spring House, PA, USA, May 21, 2014

IT-92 **N. Pržulj**, **Colloquium Lecture** "Revealing the Hidden Language of Complex Networks," Computer and Information Sciences Department, Temple University, Philadelphia, USA, May 20, 2014

IT-91 **N. Pržulj**, "Revealing the Hidden Language of Complex Networks," **Keynote Talk** at Integrative Bioinformatics Conference 2014, Newcastle University, Newcastle upon Tyne, UK, May 12-14, 2014

IT-90 **N. Pržulj**, "Mining real-world networks," Computer Science, Tel Aviv University, Israel, April 10, 2014

IT-89 **N. Pržulj**, "Mining real-world networks: from biology to economics," Cambridge Networks Network seminar series, University of Cambridge, UK, February 11, 2014

IT-88 **N. Pržulj**, "Mining real-world networks: from biology to economics," Computing Science Department, Simon Fraser University, Canada, December 20, 2013

IT-87 **N. Pržulj**, "Mining real-world networks: from biology to economics," Theoretical Approaches to Bioinformation Systems (TABIS 2013), Belgrade, Serbia, September 17-22, 2013

IT-86 **N. Pržulj**, "Network topology as a source of biological information," **Keynote Talk** at Network Biology SIG of ISMB/ECCB 2013, Berlin, Germany, July 19, 2013

IT-85 **N. Pržulj**, "Analysing Large Networked data," SASS Winter Camp 2013, Piran, Slovenia, March 15-17, 2013

IT-84 **N. Pržulj**, "Network topology as a source of biological information," Department of Social, Genetic and Developmental Psychiatry, King's College London, UK, January 29, 2013

[12]http://academy.bcs.org/content/roger-needham-lecture

IT-83 **N. Pržulj**, "Network topology as a source of information in biological and economic networks," Scientific Colloquium of University of Rijeka, Croatia, November 12, 2012

IT-82 **N. Pržulj**, "Network topology as a source of biological information," Faculty of Computer and Information Science, University of Ljubljana, Slovenia, November 6, 2012

IT-81 **N. Pržulj**, "Network topology as a source of information," Institute Jozef Stefan, Ljubljana, Slovenia, November 6, 2012

IT-80 **N. Pržulj**, "Network topology complements sequence as a source of biological information," IUBMB-FEBS 2012 Congress, Sevilla, Spain, September 4-9, 2012

IT-79 **N. Pržulj**, "'ERC experience," ERC Session at IUBMB-FEBS 2012 Congress, Sevilla, Spain, September 4-9, 2012

IT-78 **N. Pržulj**, "Networks of protein interactions," Petnica International Seminar, Petnica Research Station, Serbia, August 11, 2012

IT-77 **N. Pržulj**, "Network topology as a source of biological information," International Meeting on Data Mining in Bioinformatics, Belgrade, Serbia, June 26-28, 2012

IT-76 **N. Pržulj**, "Topology versus function," Function Prediction in Complex Networks, Kavli Royal Society International Scientific Centre, UK, May 28-29, 2012

IT-75 **N. Pržulj**, "Network topology as a source of biological information," 6th conference From Solid State to BioPhysics VI: From Physics to Life Sciences, Dubrovnik, Croatia, June 9-16, 2012

IT-74 **N. Pržulj**, "Network topology as a source of biological information," Department of Computer Science, University College London, April 4, 2012

IT-73 **N. Pržulj**, "Network topology complements sequence: insights into human disease," Workshop on Network Links: Connecting Social, Communication and Biological Network Analysis, Institute for Mathematics and Its Applications, University of Minnesota, USA, Feb 28, 2012

IT-72 **N. Pržulj**, "Network topology complements sequence: insights into human disease," Institute of Cancer Research, London, UK, February 15, 2012

IT-71 **N. Pržulj**, "Network topology as a source of biological information," Workshop on Group Testing Designs, Algorithms, and Applications to Biology, Institute for Mathematics and Its Applications, University of Minnesota, USA, Feb 14, 2012

IT-70 **N. Pržulj**, "New insights into biology from analysis of biological networks," Bioinformatics Research Group, Faculty of Mathematics, University of Belgrade, December 21, 2011

IT-69 **N. Pržulj**, "Network topology complements sequence: insights into human disease," ICREA Conference on Network Medicine Approaches to Human Disease: from Computers to the Clinics, Barcelona, Spain, November 21-23, 2011

IT-68 **N. Pržulj**, "Network topology meets biological function," Institute of Systems and Synthetic Biology - Autumn Symposium, Imperial College London, UK, November 16-17, 2011

IT-67 **N. Pržulj**, "Network topology meets biological function," **Plenary Talk** at ISIT'11, Dolenjske Toplice, Slovenia, November 9-11, 2011

IT-66 **N. Pržulj**, "Network mining uncovers new biology," Theoretical Physics, Jozef Stefan Insititute, Ljubljana, Slovenia, November 8, 2011

IT-65 **N. Pržulj**, "Network topology meets biological function," University of Toronto, MaRS Centre, Canada, October 21, 2011

IT-64 **N. Pržulj**, "Network topology as a source of biological information", *EMBO/EMBL Symposium: Structure and Dynamics of Protein Networks*, EMBL Advanced Training Centre (ATC), Heidelberg, Germany, October 13 - 16, 2011

IT-63 **N. Pržulj**, "Network mining uncovers new biology," Physics Institute, University of Belgrade, Serbia, August 26, 2011

IT-62 **N. Pržulj**, "Network mining uncovers new biology," Petnica International Seminar, Petnica Research Station, Serbia, August 3, 2011.

IT-61 **N. Pržulj**, "Network mining uncovers new biology," Centre for Systems and Synthetic Biology, Brunel University, London, UK, June 1, 2011

IT-60 **N. Pržulj**, "Graph-Theoretic Modeling of Biological Networks," Physics Seminar, Petnica Research Station, Valjevo, Serbia, May 1, 2011

IT-59 **N. Pržulj**, "Graph-Theoretic Modeling of Biological Networks," Serbian Academy of Sciences and Art (SANU), Belgrade, Serbia, April 29, 2011

IT-58 **N. Pržulj** and Saša Drezgić, "Graph theory, biological networks and economic systems," Scientific Society of Economists Election Meeting, Zagreb, Croatia, February 26, 2011

IT-57 **N. Pržulj**, "Graph-Theoretic Modeling of Biological Networks," FutureSysBio Workshop on "Defining modelling strategies for systems biology," Goteborg, Sweden, January 20-21, 2011

IT-56 **N. Pržulj**, "Mathematical and computational analysis of biological networks uncovers evolution, disease, and gene functions," School of Computing (RAF), Union University, Belgrade, Serbia, December 29, 2010

IT-55 **N. Pržulj**, "Network Topology Uncovers Function, Disease, and Phylogeny," Physiological Laboratory Seminar, University of Liverpool, December 3, 2010

IT-54 **N. Pržulj**, "Biological Networks Uncover Evolution, Disease, and Gene Functions," Complexity and Networks Programme workshop on "Complexity and Networks – Biology," Imperial College London, December 1, 2010

IT-53 **N. Pržulj**, "Network Topology Uncovers Function, Disease, and Phylogeny," **Plenary Talk** at the 5th International Conference on Pattern Recognition in Bioinformatics (PRIB), Nijmegen, The Netherlands, September 22-24, 2010

IT-52 **N. Pržulj**, "Network Topology Uncovers Function, Disease, and Phylogeny," **Plenary Talk** at Network Dynamics and Synchronization, University of Manchester, sponsored by The London Mathematical Society and CICADA, May 17-19, 2010

IT-51 **N. Pržulj**, "Network Topology Uncovers Function, Disease, and Phylogeny," Disordered Systems Group, Mathematics Seminar, King's College London, April 21, 2010

IT-50 **N. Pržulj**, "Network Topology Uncovers Function, Disease, and Phylogeny," GlaxoSmithKline, Stevenage, UK, February 8, 2010

IT-49 **N. Pržulj**, "From Network Topology to Biological Function and Disease," **Plenary Talk** at 7th Georgia Tech - ORNL Conference on Bioinformatics, Atlanta, Georgia, USA, November 12-14, 2009

IT-48 **N. Pržulj**, "Deciphering Biological Networks," INRIA Colloquium, Paris, November 3-5, 2009

IT-47 **N. Pržulj**, "Deciphering Biological Networks," Statistics Seminar, University of Oxford, October 29, 2009

IT-46 **N. Pržulj**, "From Network Topology to Biological Function and Disease" MITACS-MoMiNIS Seminar, Dalhousie University, Halifax, Nova Scotia, Canada, August 12, 2009

IT-45 **N. Pržulj**, "From Network Topology to Biological Function and Disease," Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM) 2009, Minisymposium on Complex Real-World Networks, Montreal, Quebec, May 25-28, 2009

IT-44 **N. Pržulj**, "From Network Topology to Biological Function and Disease," Center for Cancer Systems Biology (CCSB) Seminar Series, Department of Cancer Biology, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, May 21, 2009

IT-43 **N. Pržulj**, "What can we learn from protein-protein interaction networks?" Barbados Workshop on biological and computational analysis of protein-protein interaction networks, McGill University Center for Bioinformatics, Holetown, Barbados, April 19th - 25th, 2009

IT-42 **N. Pržulj**, "From Network Topology to Biological Function and Disease," RECOMB Satellite Conference on Bioinformatics Education, UC San Diego, La Jolla, California, March 14-15, 2009

IT-41 **N. Pržulj**, "From Network Topology to Biological Function and Disease," Interdisciplinary Workshop on Complex Networks across the Natural and Technological Sciences, The Institute for Advanced Studies, Glasgow, UK, January 27-30, 2009

IT-40 **N. Pržulj**, "From Network Topology to Biological Function and Disease," Department of Computing, Imperial College London, UK, January 26, 2009

IT-39 **N. Pržulj**, "Protein-protein Interaction Networks," Workshop on Complex Networks across the Natural and Technological Sciences, The Institute for Advanced Studies, UK, January 19-23, 2009

IT-38 **N. Pržulj**, "From Network Topology to Biological Function and Disease," Computer Science Department, McGill University, Canada, January 15, 2009

IT-37 **N. Pržulj**, "From Network Topology to Biological Function and Disease," University of Edinburgh, UK, December 15, 2008

IT-36 **N. Pržulj**, "Towards a Theory of Biological Networks," Structural and Computational Biology Programme Seminar, Institute for Research in Biomedicine (IRB) Barcelona, Spain, October 29, 2008

IT-35 **N. Pržulj**, "Towards a Theory of Biological Networks," Spanish National Cancer Research Center (CNIO), Madrid, Spain, October 27, 2008

IT-34 **N. Pržulj**, "Towards a Theory of Biological Networks," School of Computing (RAF), Union University, Belgrade, Serbia, October 20, 2008

IT-33 **N. Pržulj**, "Towards a Theory of Biological Networks," Petnica Research Station, Valjevo, Serbia, October 19, 2008

IT-32 **N. Pržulj**, "Towards a Theory of Biological Networks," Centre National de la Recherche Scientifique (CNRS), Laboratoire d'Informatique de Nantes-Atlantique (LINA), University of Nantes, France, July 16, 2008

IT-31 **N. Pržulj**, "Examining Biological Networks via Graphlet Degree Signatures," a minisymposium on "Networks: Biological, Social and Internet" at the SIAM Annual Meeting, San Diego, California, July 7-11, 2008

IT-30 **N. Pržulj**, "Towards a Theory of Biological Networks," Imperial College London, June 30, 2008

IT-29 **N. Pržulj**, "Towards a Theory of Biological Networks," University of Southampton, UK, June 27, 2008

IT-28 **N. Pržulj**, "Towards a Theory of Biological Networks," University of Helsinki, Finland, June 24, 2008

IT-27 **N. Pržulj**, "From Structure to Function in Biological Networks," 2008 UCI Center for Complex Biological Systems Retreat, Pasadena, California, March 28-30, 2008

IT-26 **N. Pržulj**, "From Structure to Function in Biological Networks," 2007 UCI Cancer Center Conference, Rancho Mirage, California, November 9-11, 2007

IT-25 **N. Pržulj**, "Protein-Protein Interaction and Other Biological Networks," Dept. of Biological Chemistry, UC Irvine, September 21, 2007

IT-24 **N. Pržulj**, "Geometric Local Structure in Biological Networks," 2007 IEEE Information Theory Workshop (ITW 2007), Lake Tahoe, California, September 2-6, 2007

IT-23 **N. Pržulj**, "Graphs, Proteins, and Simulations," Petnica Research Station, Valjevo, Serbia, August 11, 2007

IT-22 **N. Pržulj**, "Geometric Local Structure in Biological Networks," 39th Symposium on the Interface: Computing Science and Statistics (Theme: Systems Biology), Philadelphia, Pennsylvania, May 23-26, 2007

IT-21 **N. Pržulj**, "Geometric Local Structure in Biological Networks," Department of Defense Biotechnology HPC Software Applications Institute, Fort Detrick, Frederick, MD, May, 23, 2007

IT-20 **N. Pržulj**, "Modeling Large Biological Networks," Center for Complex Biological Systems at UC Irvine, CCBS/MCB/MCSB Retreat, Redondo Beach, March 23-25, 2007

IT-19 **N. Pržulj**, "Protein-Protein Interaction Networks: Issues, Models, and Comparisons," Institute for Mathematical Behavioral Sciences, UC Irvine, Human Complex Systems Conference, December 8, 2006

IT-18 **N. Pržulj**, "Comparing and Modeling Protein-Protein Interaction Networks," University of Glasgow, Computing Science Seminar, Glasgow, UK, October 20, 2006

IT-17 **N. Pržulj**, "Comparing and Modeling Protein-Protein Interaction Networks," University of Strathclyde, Mathematics Colloquium, Glasgow, UK, October 18, 2006

IT-16 **N. Pržulj**, "Comparing and Modeling Protein-Protein Interaction Networks," Max Planck Institute for Molecular Genetics, Berlin, Germany, September 28, 2006

IT-15 **N. Pržulj**, "Comparing and Modeling Protein-Protein Interaction Networks," University of Bremen, Germany, September 26, 2006

IT-14 **N. Pržulj**, "Protein-Protein Interaction Networks: Issues, Models, and Comparisons," The Foundation for Research and Technology – Hellas (FORTH) Research Center, Heraklion, Greece, September 14, 2006

IT-13 **N. Pržulj**, "Protein-Protein Interaction Networks: Issues, Models, and Comparisons," International mathematical conference: *Topics in Mathematical Analysis and Graph Theory (MAGT'06)*, Belgrade, Serbia, September 1-4, 2006

IT-12 **N. Pržulj**, "Comparing and Modeling Protein-Protein Interaction Networks," The Institute of Physics, University of Belgrade, Belgrade, Serbia, August 29, 2006

IT-11 **N. Pržulj**, "Comparing and Modeling Protein-Protein Interaction Networks," Petnica Research Station, Valjevo, Serbia, August 26, 2006

IT-10 **N. Pržulj**, "Comparing and Modeling Protein-Protein Interaction Networks," Workshop on *Algorithms in Bioinformatics (AlBio'06)*, Moscow, Russia, July 11-13, 2006

IT-9 **N. Pržulj**, "Analyzing Large Biological Networks: Protein-Protein Interaction Example," *Simon Fraser University*, Vancouver, Canada, December 14, 2005

IT-8 **N. Pržulj**, "Analyzing Large Biological Networks: Protein-Protein Interaction Example," *University of Victoria*, Victoria, Canada, December 13, 2005

IT-7 **N. Pržulj**, "Analyzing Large Biological Networks: Protein-Protein Interaction Example," *University of British Columbia*, Vancouver, Canada, December 12, 2005

IT-6 **N. Pržulj**, "Analyzing Large Biological Networks: Protein-Protein Interaction Example," *Institute of Physics, University of Belgrade*, Zemun, Serbia and Montenegro, September 14, 2005

IT-5 **N. Pržulj**, "Analyzing Large Biological Networks: Protein-Protein Interaction Example," *BMC Research Center, RIKEN*, Nagoya, Japan, May 24, 2005

IT-4 **N. Pržulj**, "Analyzing Large Biological Networks: Protein-Protein Interaction Example", *Computer Science Department, UC Riverside*, Riverside, CA, April 25, 2005

IT-3 **N. Pržulj**, "Analyzing Large Biological Networks: Protein-Protein Interaction Example", *Computer Science Department, UC Irvine*, Irvine, CA, March 17, 2005

IT-2 **N. Pržulj**, "Analyzing Software Call Graphs," *Microsoft Research, Redmond*, WA, August 22, 2003

IT-1 **N. Pržulj**, D. Wigle, and I. Jurisica, "Functional Topology in a Network of Protein Interactions," *BioPathways*, *ISMB'03*, Brisbane, Australia, June 27 - 28, 2003

Contributed Talks:

Recall that **Intelligent Systems for Molecular Biology (ISBM)** and **European Conference on Computational Biology (ECCB)** are the top conferences in the field of computational biology with acceptance rates of about 15%. Every other year they are organized as one conference. Their proceedings are published as special issues of *Bioinformatics*, the top journal in the research area. **Network Biology Special Interest Group (NetBio SIG)** Meeting, now called **NetBio Community of Special Interest (COSI)**, is the top meeting in the field of biological networks, organized yearly as a pre-conference of ISMB.

CT-39 S. Windels, C. Zambrana, A. Xenos, N. Malod-Dognin and **N. Pržulj**, "Workshop on Multi-Omics Data Analytics and Fusion," Belgrade Bioinformatics Conference (BelBi 2024), Serbia, June 17-20, 2024

CT-38 **N. Pržulj**, "AI for Multi-Omics Data Fusion: Understanding Molecular Complexity Enabling Precision Medicine," Artificial Intelligence Conference, The Serbian Academy of Sciences and Arts (SANU), Belgrade, Serbia, December 26-27, 2023

CT-37 S. Doria-Belenguer, A. Xenos, G. Ceddia, N. Malod-Dognin, and **N Pržulj**, "The axes of biology: a novel axes-based network embedding paradigm to decipher the functional mechanisms of the cell.," ISMB/ECCB NetBio COSI 2023, Lyon, France, July 23-27, 2023

CT-36 S. Doria-Belenguer, M. K. Youssef, R. Bottcher, N. Malod-Dognin, and **N. Przulj**, "Probabilistic Graphlets Capture Biological Function in Probabilistic Molecular Networks," European Conference on Computational Biology (ECCB), Sitges, Spain, August 31 - September 8, 2020

CT-35 N. Malod-Dognin, V. Pancaldi, A. Valencia and **N. Przulj**, "Chromatin network markers of leukemia," *International Conference on Intelligent Systems for Molecular Biology (ISMB)*, Montreal, Canada, July 13-16, 2020

CT-34 **N. Przulj**, "Untangling Biological Complexity: Towards Data-Integrated Medicine," *Precision Medicine World Conference*, San Jose, CA, USA, January 24, 2020

CT-33 T. Gaudelet, N. Malod-Dognin and **N. Przulj**, "Higher-order molecular organization as a source of biological information," *European Conference on Computational Biology (ECCB) 2018*, Athens, Greece, September 8-12, 2018. Acceptance rate 17% (Journal paper J-64 above: *Bioinformatics*, 34, 2018, i944-i953, ECCB 2018)

CT-32 V. Gligorijevic, N. Malod-Dognin and **N. Przulj**, "Patient-Specific Data Fusion for Cancer Stratification and Personalized Treatment," Proceedings of the 2016 *Pacific Symposium on Biocomputing (PSB)*, 21:321-332(2016), Big Island, Hawaii, USA, January 4-9, 2016 **(Cited 26 times)**

CT-31 V. Gligorijevic, V. Janjic and **N. Przulj**, "Integration of molecular network data reconstructs Gene Ontology," *European Conference on Computational Biology (ECCB) 2014*, Strasbourg, France, September 7 to 10, 2014

CT-30 A. Sarajlic, V. Gligorijevic, D. Radak and **N. Przulj**, "Network wiring of pleiotropic kinases yields insight into protective role of diabetes on aneurysm," Drug Development workshop of ECCB'14, Strasbourg, France, September 6-10, 2014

CT-29 K. Sun, N. Buchan, C. Larminie and **N. Przulj**, "The integrated disease network," Drug Development workshop of ECCB'14, Strasbourg, France, September 6-10, 2014

CT-28 V. Janjic and **N. Przulj**, Evolution of the Topology of the Human Interactome, International Symposium on Integrative Bioinformatics, Newcastle, UK, May 12-14, 2014

CT-27 S. Drezgić, I. Grudenić, A. Ionescu, and **N. Pržulj**, "A technical approach to local government amalgamation," Proceedings of 18th Dubrovnik Economic Conference, Croatian National Bank, Dubrovnik, Croatia, June 27-30, 2012

CT-26 B. Betkaoui, D. B. Thomas, W. Luk, and **N. Pržulj**, "A Framework for FPGA Acceleration of Large Graph Problems: Graphlet Counting Case Study," Proceedings of International Conference on Field Progammable Technology (FPT'11), New Delhi, India, December 12-14, 2011

CT-25 **N. Pržulj**, "Topological network alignment uncovers biological function and phylogeny," ***Highlights Track, ISMB/ECCB 2011***, Vianna, Austria, July 17-19, 2011

CT-24 **N. Pržulj**, "Integrative Network Alignment and Analysis: MI-GRAAL and GraphCrunch," *Network Biology Special Interest Group (SIG) of ISMB/ECCB 2001*, Vienna, Austria, July 15, 2011

CT-23 **N. Pržulj**, "Geometric Evolutionary Dynamics of Protein Interaction Networks," School and Conference on Computational Methods in Dynamics, Trieste, Italy, July 6, 2011

CT-22 **N. Pržulj**, "Protein-Protein Interaction Network Topology Uncovers Evolution, Disease, and Gene Functions," *ESF EMBO Symposium on "Molecular Perspectives on Protein-Protein Interactions,"* Sant Feliu de Guixols, Spain, November 14-19, 2010

CT-21 **N. Pržulj**, "From biological networks to phylogeny and disease," *Cold Spring Harbor Laboratory Meeting on Systems Biology: Networks*, Hinxton, UK, August 11-15, 2010

CT-20 **N. Pržulj**, "Uncovering melanogenesis regulatory pathways from protein-protein interaction networks: the computational method and software tool," *RECOMB Computational Cancer Biology 2010*, Oslo, Norway, June 24-25, 2010

CT-19 V. Memisevic, T. Milenkovic, and **N. Pržulj**, "An integrative approach to modelling biological networks," 6th Annual International Symposium on Integrative Bioinformatics, Cambridge, UK, March 22-24, 2010

CT-18 V. Memisevic, T. Milenkovic, and **N. Pržulj**, "Complementarity of network and sequence information in homologous proteins," 6th Annual International Symposium on Integrative Bioinformatics, Cambridge, UK, March 22-24, 2010

CT-17 O. Kuchaiev, P. T. Wang, Z. Nenadic, and **N. Pržulj**, "Structure of Brain Functional Networks," 31st Annual International Conference of the *IEEE Engineering in Medicine and Biology Society (EMBC'09)*, Minneapolis, Minnesota, USA, September 2-6, 2009

CT-16 O. Kuchaiev, T. Milenkovic, V. Memisevic, W. Hayes, and **N. Pržulj**, "Topological network alignment uncovers biological function and phylogeny," *BioPathways*, a Satellite Conference of *Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB'09)*, Stockholm, Sweden, June 27 - July 2, 2009

CT-15 O. Kuchaiev and **N. Pržulj**, "Learning the structure of protein-protein interaction networks," *Pacific Symposium on Biocomputing (PSB 2009)*, Big Island, Hawaii, January 5-9, 2009

CT-14 **N. Pržulj**, "Biological Network Comparison Using Graphlet Degree Distribution," *12th Serbian Mathematical Congress*, Novi Sad, Serbia, August 28 - September 2, 2008

CT-13 T. Milenkovic and **N. Pržulj**, "Uncovering Biological Network Function via Graphlet Degree Signatures," *12th Serbian Mathematical Congress*, Novi Sad, Serbia, August 28 - September 2, 2008

CT-12 T. Milenkovic and **N. Pržulj**, "From network structure to biological function in protein-protein interaction networks," *BioPathways*, a Satellite Conference of *Intelligent Systems for Molecular Biology (ISMB'08)*, Toronto, Canada, July 18-19, 2008

CT-11 T. Milenkovic and **N. Pržulj**, "Uncovering Biological Network Function via Graphlet Degree Signatures," *BioPathways*, a Satellite Conference of *Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB'07)*, Vienna, Austria, July 19-20, 2007

CT-10 **N. Pržulj**, "Biological Network Comparison Using Graphlet Degree Distributions", *European Conference on Computational Biology (ECCB'06)*, acceptance rate 18%, Eilat, Israel, January 21-24, 2007

CT-9 Fereydoun Hormozdiari, Petra Berenbrink, **N. Pržulj**, and Cenk Sahinalp, "Not All Scale Free Networks are Born Equal: the Role of the Seed Graph in PPI Network Emulation", *Research in Computational Molecular Biology (RECOMB'06) Satellite Conferences on Systems Biology and Computational Proteomics*, UC San Diego, December 1-3, 2006

CT-8 **N. Pržulj** and Wayne Hayes, "Biological network comparison using graphlet degree distributions," *3rd International Symposium on Networks in Bioinformatics (ISNB'06)*, acceptance rate 20%, Amsterdam, the Netherlands, May 29-31, 2006

CT-7 **N. Pržulj**, "Uncovering Structure in Protein-Protein Interaction Networks," *BioPathways*, a Satellite Conference of *Intelligent Systems for Molecular Biology (ISMB'05)*, Detroit, Michigan, June 23 - 24, 2005

CT-6 **N. Pržulj**, D. G. Corneil, and I. Jurisica, "Geometric Model of Protein Interaction Networks," *CNET 2004*, University of Aveiro, Portugal, August 29 - September 2, 2004

CT-5 **N. Pržulj** and D. G. Corneil, "2-tree probe interval graphs have a large obstruction set," *12th Ontario Combinatorics Workshop*, University of Ottawa, May 1-2, 2003

CT-4 **N. Pržulj**, G. Lee, and I. Jurisica, "Functional Analysis of Large Software Networks," *IBM Academy: Proactive Problem Prediction, Avoidance and Diagnosis*, IBM T.J. Watson Research Center, Yorktown, NY, April 28-29, 2003

CT-3 **N. Pržulj**, "Minimal Hereditary Dominating Pair Graphs," *Workshop on Structured Families of Graphs*, The Fields Institute, May 8-13, 2000

CT-2 **N. Pržulj**, "Minimal Hereditary Dominating Pair Graphs," *Special Year on Graph Theory and Combinatorial Optimization Program Seminar Series*, The Fields Institute, March 22, 2000

CT-1 A. L. Liestman and **N. Pržulj**, "Minimum Average Time Broadcast Graphs," *27th SE International Conference on Combinatorics, Graph Theory, and Computing*, Boca Raton, Florida, March, 1997

Academic Service

ISCB Committee Member:

– ISCB Science in Society Committee, 2026 – 2029

Scientific Advisory Board Member:

– Member of the Committee for the Development of the National Policy for the Promotion of Smart Health Services and Artificial Intelligence in the Health Sector in the UAE, Health Policies and Legislations Department, Ministry of Health and Prevention (MOHAP), UAE, 2025 – present

– Luxembourg Centre of Systems Biomedicine (LCSB) at the University of Luxembourg, 2022 – present

– Institute of Molecular Genetics and Genetic Engineering (IMGGE) at the University of Belgrade, 2022 – present

– Member of the Presidency of the Serbian Society for Bioinformatics and Computational Biology (BIRBI), 2021 – present

– Helmholtz Centre for Infection Research (HZI / Braunschweig, Germany): 2017 – 2024

– GlaxoSmithKline (GSK) Network Biology Scientific Advisory Board: 2019-2020

External Advisory Board Member:

– External Advisory Board for Warwick University's MRC funded Doctoral Training Partnership, UK: 2018

Associate Editor:

– Frontiers in Genetics (Frontiers)

  * Open-access, publishes reviews, opinions, and commentaries across the full spectrum of genetic and genomic inquiry, from the most basic to the most applied, across all branches of the tree of life, embracing methodology, applications and implications.

    * Impact factor: 4.37
  - Frontiers in Bioinformatics (Frontiers)
  - BMC Bioinformatics (BioMed Central)
    * An open access, peer-reviewed journal that considers articles on all aspects of the development, testing and novel application of computational and statistical methods for the modeling and analysis of all kinds of biological data, as well as other areas of computational biology.
    * Impact factor: 3.169
  - Network and Systems Medicine (Mary Ann Liebert)
    * The premier open access, peer reviewed journal focused on interdisciplinary approaches to exploiting the power of big data by applying systems biology and network medicine. Systems Medicine yields major breakthroughs towards mechanism-based re-definitions of diseases for high-precision diagnostics and treatments.

Editorial Board Member:

  - Bioinformatics (Oxford Journals)
    * A leading journal in its field, Bioinformatics publishes the highest quality scientific papers and review articles of interest to academic and industrial researchers. Its main focus is on new developments in genome bioinformatics and computational biology.
    * Impact factor: 6.937
  - PLOS Complex Systems (PLOS)
    * Section Editor for the Human Health section
  - Scientific Reports - Nature (Nature Publishing Group)
    * Scientific Reports is an online, open access journal from the publishers of *Nature*. It publishes scientifically valid primary research from all areas of the natural and clinical sciences. According to the 2013 Journal Citation Reports Science Edition (Thomson Reuters, 2014), Scientific Reports is the 5th among all multidisciplinary science primary research journals.
    * Impact factor: 4.996
  - International Journal of Knowledge Discovery in Bioinformatics (IJKDB) (IGI Global)
    * Published quarterly since being established in 2010
    * Collects the most significant research and latest practices in computational knowledge discovery approaches to bioinformatics

Guest Editor:

  - Internet Mathematics (A K Peters Ltd)
    * Internet Mathematics publishes research papers that address fundamental problems, both conceptual and algorithmic, that arise in dealing with large complex information networks such as the Internet
    * Impact factor: 1.46

Conference Organizing:

Recall that **Intelligent Systems for Molecular Biology (ISBM)** and **European Conference on Computational Biology (ECCB)** are the top conferences in the field of computational biology with acceptance rates of about 15%. Every other year they are organized as one conference. Their proceedings are published as special issues of *Bioinformatics*, the top journal in the research area. **Network Biology Special Interest Group Meeting (NetBio SIG)**, now called **NetBio Community of Special Interest (COSI)**, is the top meeting in the field of biological networks, organized yearly as a pre-conference of ISMB, Prof. Przulj has been a co-organizer.

25. **BIRBI Presidency Program Committee** member of **Belgrade Bioinformatics Conference (BelBi)**, Belgrade, Serbia, June 16-19, 2026
24. Track Chair, 20th conference on Computational Intelligence methods for Bioinformatics and Biostatistics (CIBB 2025), Politecnico di Milano, Milan, Italy, September 10-12, 2025
23. **Local Organising Committee** member of **Computer Methods in Biomechanics and Biomedical Engineering (CMBBE)**, UPF Ciutadella Campus, Barcelona, Spain, September 3-5, 2025
22. **Area Co-Chair** for the "Systems Biology and Networks" area of the **Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB)**, Liverpool, UK, July 20-24, 2025
21. **Area Co-Chair** for the "Systems Biology and Networks" area of the **Intelligent Systems for Molecular Biology (ISMB)**, Montreal, Canada, July 12-16, 2024
20. **BIRBI Presidency Program Committee** member of **Belgrade Bioinformatics Conference (BelBi)**, Belgrade, Serbia, June 17-20, 2024
19. **Elected Chair** of **Network Biology (NetBio) Community of Special Interest (COSI)** of the **International Society of Computational Biology (ISCB)** and its **flagship conference, Intelligent Systems for Molecular Biology (ISMB)**, 2019 – 2023
18. **BIRBI Presidency Program Committee** member of **Belgrade Bioinformatics Conference (BelBi)**, Belgrade, Serbia, June 19-23, 2023
17. **BIRBI Presidency Program Committee** member of **Belgrade Bioinformatics Conference (BelBi)**, Belgrade, Serbia, June 21-25, 2021
16. **COSI Lead** at **ISMB/ECCB 2019** of **NetBio COSI**, Basel, Switzerland, July 20-25, 2019
15. **Senior Program Committee** member of **ISMB 2018**, **co-Chair of all tracks, representing NetBio COSI**, Chicago, USA, July 6-10, 2018
14. **Proceedings Area Chair** of Network Biology track at **ISMB/ECCB 2017**, Prague, CZ, July 21-25, 2017
13. **Proceedings Area Chair** of Protein Interactions and Molecular Networks track at **ISMB 2016**, Orlando, FL, USA, July 8-12, 2016
12. Network Biology Special Interest Group Meeting (NetBio SIG) at ISMB 2016, Orlando, FL, USA, July 8-12, 2016
11. "Challenges and approaches in comprehensive and informative complex network analysis for precision medicine," Workshop at ECCB 2016, co-organized with Prof. Igor Jurisica and Prof. Tijana Milenkovic, The Hague, Netherlands, September 3-7, 2016

10. **Proceedings Area Chair** of Protein Interactions and Molecular Networks track at **ISMB/ECCB 2015**, Dublin, Ireland, July 10-14, 2015
9. Network Biology Special Interest Group Meeting (NetBio SIG) at ISMB/ECCB 2015, Dublin, Ireland, July 10-14, 2015
8. "Challenges and approaches in comprehensive and informative complex network analysis for precision medicine", co-organized with Igor Jurisica and Tijana Milenkovic, The $[BC]^2$ Basel Computational Biology Conference, Switzerland, June 9, 2015
7. "Integrative Dynamic Analyses of Large Biomedical Network Data," Workshop at ECCB 2014, co-organized with Prof. Tijana Milenkovic, Strasbourg, France, September 7-10, 2014
6. Network Biology Special Interest Group Meeting (NetBio SIG) at ISMB 2014, Boston, USA, July 11-12, 2014
5. ACM Conference on Bioinformatics, Computational Biology, and Biomedicine (ACM BCB 2013), **Area Chair of System Biology** track, Washington, DC, USA, Sep 22-25, 2013
   - ACM-BCB is the main flagship conference of the ACM SIGBio (ACM Special Interest Group on Bioinformatics, Computational Biology and Biomedical Informatics).
   - Association for Computing Machinery (ACM) is the world's largest educational and scientific computing society, it delivers resources that advance computing as a science and a profession, provides the computing field's premier Digital Library and serves its members and the computing profession with leading-edge publications, conferences, and career resources.
4. Network Biology Special Interest Group Meeting (NetBio SIG) at ISMB/ECCB 2013, Berlin, Germany, July 19-23, 2013
3. Network Biology Special Interest Group Meeting (NetBio SIG) at ISMB 2012, Long Beach, CA, USA, July 15-17, 2012
2. "Network Links: Connecting Social, Communication and Biological Network Analysis," Institute for Mathematics and Its Applications, University of Minnesota, USA, Feb 27 - March 2, 2012
   - Co-organized with: Prof. Mathieu Blanchette, McGill University, Canada; Dr. Graham Cormode AT&T Laboratories - Research, USA; Prof. Ben Raphael, Brown University, USA; and Prof. S. Cenk Sahinalp, Simon Fraser University, Canada.
   - Founded in 1982, the Institute for Mathematics and its Applications (IMA) is an NSF-funded visitors' institute that has grown to become among the most influential math institutes in the world. Located on the University of Minnesota campus in the USA, it is one of eight NSF Mathematical Sciences Research Institutes.
1. "Biological Networks: Analyses, Models, Functions, and Disease," Tutorial at the 9th International Conference on Systems Biology (ICSB'08), Gothenburg, Sweden, August 22-28, 2008
   - Co-organized with Prof. Tijana Milenkovic, University of Notre Dame, USA.
   - International Conference on Systems Biology (ICSB) is the highly-anticipated main event for the global systems biology community. It attracts top system biologists from all over the world to an environment that encourages integration of biology, computer science, engineering and chemistry, and that spans leading areas of biomedical research.

Government Grant Proposal Reviewing and Project Monitoring:

36. United Al Saqer Grant Steering Committee Membert, MBZUAI, UAE, 2026
35. Agence Nationale de la Recherche (ANR), France, 2025
34. Peer Review Panel Member of the European High Performance Computing Joint Undertaking (EuroHPC JU) Biochemistry domain, 2023-2025
33. Israel Science Foundation, 2024
32. Azrieli Foundation, Israel, 2024
31. Project Monitoring in 2024 for call HORIZON-CL4-2022-DATA-01-05: Extreme data mining, aggregation and analytics technologies and solutions
30. Scientific Committee member for Horizon Europe WIDERA call, 2021
29. Scientific Committee member for Data Science at the Novo Nordisk Foundation, 2021
28. Scientific Committee member for the French National Agency of Research (ANR), for the National Plan for Rare Diseases 3 (NPMR3), action named "Accelerating research and innovation on rare diseases through databases," 2021
27. Panel member of the Academy of Finland Bioinformatics and Systems Biology panel, 2021
26. Expert reviewer for several calls of Horizon Europe, EU, 2021
25. AXA Research Fund Chairs reviewer 2020
24. Expert reviewer for Horizon 2020, EU, 2020
23. Vice-chairwoman of the Discipline Committee EX 4 by the CSF Presidium, Czech Science Foundation, 2018-2020
22. Vienna Science and Technology Fund (WWTF): jury member for the 2019 and 2020 young research excellence program "Vienna Research Groups for Young Investigators" in the area of "Information and Communication Technology – Interdisciplinary Data Science," Austria, 2019-2020
21. Expert reviewer and panelist for the Research Council of Norway, 2015-2017
20. Expert reviewer for Horizon 2020, EU, 2016
19. Expert reviewer for Horizon 2020, EU, 2015
18. Reviewed proposals for Engineering and Physical Sciences Research Council (EPSRC), UK, 2015
17. Expert reviewer and panellist for Horizon 2020, EU, 2014
16. Reviewed proposals for EPSRC, UK, 2014
15. Reviewed proposals for French Aix-Marseille excellence initiative A*MIDEX, 2014
14. Reviewed proposals for Medical Research Council (MRC), UK, 2013
13. Reviewed proposals for the Agency for Science, Research and Technology (A*STAR) in Singapore, 2013
12. Reviewed proposals for University of Southern Denmark strategic research fund, 2013
11. Reviewed proposals for EPSRC, UK, 2012
10. Reviewed proposals for the Defense Threat Reduction Agency (DTRA), DoD, USA 2011
9. Reviewed proposals for Canada Foundation for Innovation, 2010

8. Reviewed proposals for the Netherlands Genomics Initiative, 2010
7. Reviewed proposals for the Medical Research Council (MRC), UK, 2009
6. Reviewed proposals for the Israel Science Foundation (ISF), Israel, 2009
5. A panelist for the Academy of Finland Research Council for Natural Sciences and Engineering, Helsinki, Finland, 2008
4. Reviewed proposals for the Biotechnology and Biological Sciences Research Council (BBSRC), UK, 2007
3. Reviewed proposals for the US NSF (National Science Foundation) DMS Applied Mathematics Program, 2007
2. US NSF (National Science Foundation) panelist at a Panel of CISE IIS program, Arlington, VA, USA, 2007
1. US NSF (National Science Foundation) panelist at a Panel of CISE SEII program, Arlington, VA, USA, 2006

Biomedical Infrastructure, Facilities and Research Evaluation:

8. INRIA Research Groups, France, 2026
7. Technical University of Denmark, Center for Biosustainability, Senior Researcher (Group Leader) selection, Denmark, 2024
6. Selection Committee member for recruiting for a tenure-track position in "Artificial Intelligence for Digital Health," Universite Paris Sciences et Letters, France, 2024
5. Tenure Committee, Computer Science, University of Helsinki, Finland, 2023
4. Selection for tenure-track positions as Assistant professor, Umea Univesity, Sweden, 2021-2022
3. INRIA Research Groups, France, 2022
2. EMBL-EBI Research Review, Hinxton near Cambridge, UK, 2021
1. Institut du Cerveau et de la Moelle epiniere, Brain & Spine Institute - ICM
Hopital Pitie-Salpetriere - Bat. Paul Castaigne - 47, bd de l'Hopital 75013 Paris - France, December 2018

Program Committee Member:

68. Computational Intelligence Methods for Bioinformatics and Biostatistics (CIBB 2026), Rome, Italy, September 2-4, 2026
67. Belgrade Bioinformatics Conference (BelBi), Belgrade, Serbia, June 8-10, 2026
66. Network Science Informs AI (NSIA), NetSci 2026 Satellite, Boston, MA, USA, June 1-5, 2026
65. Area Co-Chair for the "Systems Biology and Networks" area of the Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB), Liverpool, UK, July 20-24, 2025
64. Track Chair, 20th conference on Computational Intelligence methods for Bioinformatics and Biostatistics (CIBB 2025), Politecnico di Milano, Milan, Italy, September 10-12, 2025
63. Computer Methods in Biomechanics and Biomedical Engineering (CMBBE), UPF Ciutadella Campus, Barcelona, Spain, September 3-5, 2025

62. France's International Conference on Complex Systems (FRCCS 2025), Bordeaux, France, May 21-23, 2025
61. Complex Networks 2024, Istanbul, Turkey, December 10-12, 2024
60. ACM BCB 2024, Shenzhen, Guangdong Province, PR China, November 22-25, 2024
59. Area Co-Chair for Systems Biology and Networks, Intelligent Systems for Molecular Biology (ISMB), Montreal, Canada, July 2024
58. Belgrade Bioinformatics Conference (BelBi), Belgrade, Serbia, June 17-20, 2024
57. FRCCS 2024: 4th French Regional Conference on Complex Systems, Montpellier, France, May 29-31, 2024
56. ISMB/ECCB 2023, Lyon, France, July 23 - 27, 2023
55. Complex Networks 2023, French Riviera, France, 28 - 30 November, 2023
54. FRCCS 2023: The Third French Regional Conference on Complex Systems, Le Havre, France, May 31, 2023 - Jun 2, 2023
53. The 13th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB 2022), Chicago, IL, USA, August 7-10, 2022
52. The Seventh International Workshop on Computational Network Biology: Modeling, Analysis, and Control (CNB-MAC 2022), Chicago, IL, USA, August 7, 2022
51. Complex Networks 2022, Palermo, Italy, November 8-10, 2022
50. Barcelona Build vs. Buy for HPC Invited Summit (3B4HPC), Barcelona, Spain, June 30 – July 1, 2022
49. Steering Committee of the Bioinformatics Research Seminars at the Faculty of Mathematics, University of Belgrade, Serbia, 2021 – present
48. Complex Networks 2021, Madrid, Spain, November 30 – December 2, 2021
47. International Symposium on Mathematical and Computational Oncology (ISMCO), October 11-13, 2021
46. ACM BCB 2021 (The 12th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB), August 1-4, 2021
45. ISCM/ECCB COSI Committee, July 25-30, 2021
44. Belgrade Bioinformatics Conference, BelBi 2021, Belgrade, Serbia, June 21-25, 2021
43. ISMB 2020, Montreal, Canada, July 13-16, 2020
42. RECOMB 2020, Padova, Italy, May 10-13, 2020
41. ISMCO 2020 (International Symposium on Mathematical and Computational Oncology), San Diego, CA, USA, October 8-10, 2020
40. Complex Networks 2020, Madrid, Spain, December 1-3, 2020
39. Complex Networks 2019, Lisbon, Portugal, December 10-12, 2019
38. ISBM/ECCB 2019, Basel, Switzerland, July 21-25, 2019
37. RECOMB 2019, Washington, DC, USA, May 5-9, 2019
36. International Symposium on Mathematical and Computational Oncology (ISMCO) 2019, Incline Village, Lake Tahoe, NV, USA, April 29 - May 1, 2019
35. COMPLEX NETWORKS 2018, Cambridge, UK, December 11 - 13, 2018
34. ISMB 2018, Chicago, USA, July 6-10, 2018

33. RECOMB 2018, Paris, France, April 21-24, 2018
32. COMPLEX NETWORKS 2017, Lyon, France, November 29 - December 1, 2017
31. ISMB/ECCB 2017, Prague, CZ, July 21-25, 2017
30. European Conference on Computational Biology (ECCB) 2016, The Hague, Netherlands, September 3-7, 2016
29. Intelligent Systems for Molecular Biology (ISMB) 2016, Orlando, FL, USA, July 8 - July 12, 2016
28. Network Biology Special Interest Group Meeting (NetBio SIG) of Intelligent Systems for Molecular Biology (ISMB) 2016, Orlando, Florida, USA, July 8-12, 2016
27. Research in Computational Molecular Biology (RECOMB) 2016, Los Angeles, CA, USA, April 17-21,2016
26. ACM International Conference on Bioinformatics and Computational Biology (ACM-BCB) 2015, Atlanta, GA, USA, September 9-12, 2015
25. Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB) 2015, Dublin, Ireland, July 10 - July 14, 2015
24. NetBio SIG of ISMB/ECCB 2015, Dublin, Ireland, July 10, 2015
23. Brazilian Symposium on Bioinformatics (BSB) 2014, Belo Horizonte, MG, Brazil, October 28-30, 2014
22. ECCB 2014 satellite workshop on Computational Integrative Biology Methods for Drug Development, Strasbourg, France, September 7, 2014
21. ISMB 2014, Boston, USA, July 11-15, 2014
20. NetBio SIG of ISMB 2014, Boston, USA, July 11, 2014
19. IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS), Miami Beach, FL, USA, June 2-4, 2014
18. ACM-BCB 2013, Washington DC, Sep 22-25, 2013
17. ISMB/ECCB 2013, Berlin, Germany, July 19-23, 2013
16. NetBio SIG of ISMB/ECCB 2013, Berlin, Germany, July 19, 2013
15. ACM-BCB 2012, Orlando, Florida, October 7-10, 2012
14. ECCB 2012, Basel, Switzerland, September 9 - 12, 2012
13. Brazilian Symposium on Bioinformatics (BSB & EBB), Campo Grande, Mato Grosso do Sul, Brazil, August 13-17, 2012
12. ISMB 2012, Long Beach, California, USA, July 15-17, 2012
11. NetBio SIG at ISMB 2012, Long Beach, CA, USA, July 15-17, 2012
10. ISMB/ECCB 2011, Vienna, Austria, July 15 - July 19, 2011
9. ACM-BCB 2011, Chicago, USA, August 1-3, 2011
8. ISMB 2010, Boston, USA, July 11 - July 13, 2010
7. ACM-BCB, Niagara Falls, NY, USA, August 2-4, 2010
6. Immunoinformatics and Computational Immunology Workshop (ICIW 2010), in conjunction with ACM International Conference on Bioinformatics and Computational Biology (ACM-BCB), Niagara Falls, NY, USA, August 2-4, 2010
5. Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB) 2009, Stockholm, Sweden, June 27 - July 2, 2009

4. 16th International Symposium on Graph Drawing, Crete, Greece, September 21-24, 2008
3. International Workshop on Data Mining in Bioinformatics (BIOKDD '08) at the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (SIGKDD'08), Las Vegas, NV, USA, August 24-27, 2008
2. International Workshop on Data Mining in Bioinformatics (BIOKDD '07) at the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (SIGKDD'07), San Jose, CA, USA, August 12th, 2007
1. Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB) 2007, Vienna, Austria, July 21-25, 2007

Session Chair:

29. MBZUAI Research Seminar of Prof. Miljana Radivojevic, University College London, UK, February 11, 2026
28. MBZUAI Research Seminar of Prof. Robert Moskovitch, Ben Gurion University of the Negev, IL, November 4, 2025
27. Second School of Digital Public Health Symposium, MBZUAI, October 15-16, 2025
26. 20th conference on Computational Intelligence methods for Bioinformatics and Biostatistics (CIBB 2025), Politecnico di Milano, Milan, Italy, September 12, 2025
25. First School of Digital Public Health Symposium, MBZUAI, April 21-22, 2025
24. MBZUAI Research Seminar of Prof. Andreas Bender, Khalifa University, UAE, and University of Cambridge, UK, April 8, 2025
23. Barcelona Supercomputing Center (BSC) Life Session Seminar: Prof. Karsten Borgwardt, Barcelona, Spain, October 10, 2024
22. ISMB/ECCB NetBio COSI, Lyon, France, July 23-27, 2023
21. Barcelona Supercomputing Center (BSC) Life Session Seminar: Prof. Roded Sharan, Barcelona, Spain, June 9, 2022
20. Barcelona Supercomputing Center (BSC) Life Session/Bioinfo4Women Seminar: Dr. Shilpa Garg, Barcelona, Spain, February 17, 2022
19. Bioinformatics Research Seminar Series at the Faculty of Mathematics, University of Belgrade: Prof. Igor Jurisica, Serbia, December 1, 2021
18. Barcelona Supercomputing Center (BSC) Life Session: Prof. Igor Jurisica, Barcelona, Spain, October 14, 2021
17. Belgrade BioInformatics Conference, Belgrade, Serbia, June 21-25, 2021
16. Barcelona Supercomputing Center (BSC) Life Session/Bioinfo4Women Seminar: Dr. Sushmita Roy, Barcelona, Spain, April 29, 2021
15. Barcelona Supercomputing Center (BSC) Life Session/Bioinfo4Women seminar: Prof. Andela Saric, Barcelona, Spain, March 4, 2021
14. COMPLEX NETWORKS 2017, Lyon, France, November 29 - December 1, 2017
13. ECCB 2016, The Hague, NL, Sep 3 - 7, 2016
12. ECCB 2016 Workshop on Challenges and approaches in comprehensive and informative complex network analysis for precision medicine, Sep 3, 2016
11. ISMB 2016, Orlando, FL, USA, July 10 - July 12, 2016

10. ISMB/ECCB 2015, Dublin, Ireland, July 10 - July 14, 2015
9. NetSci 2015, International School and Conference on Network Science, Zaragoza, Spain, June 1-5, 2015
8. "Integrative Dynamic Analyses of Large Biomedical Network Data," Workshop at ECCB 2014, Strasbourg, France, September 7-10, 2014
7. Plenary Session 2, From Solid State To Bio Physics 2014, Cavtat, Croatia, June 7-14, 2014
6. Network Biology Special Interest Group Meeting (NetBio SIG) at ISMB/ECCB 2013, Berlin, Germany, July 19-23, 2013
5. "Network Links: Connecting Social, Communication and Biological Network Analysis," Institute for Mathematics and Its Applications, University of Minnesota, USA, Feb 27 - March 2, 2012
4. RECOMB Satellite Conference on Bioinformatics Education (RECOMB-BE) 2009, UC San Diego, La Jolla, California, March 14-15, 2009
3. Invited session, Center for Algorithmic and Systems Biology, CASB-20, UC San Diego, La Jolla, California, March 14-15, 2009
2. Invited session on *Networks in Society and Technology* at the *Complex Networks Across the Technological and Natural Sciences*, Institute for Advanced Studies, Glasgow, UK, January 27-30, 2009
1. Invited session on *Biological Networks* at the *39th Symposium on the Interface: Computing Science and Statistics – Systems Biology*, Philadelphia, PA, May 23-26, 2007

Journal Paper Reviewer:

29. *Algorithms for Molecular Biology* (BioMed Central)
28. *Bioinformatics* (Oxford Journals)
27. *BMC Bioinformatics* (BioMed Central)
26. *Briefings in Functional Genomics* (Oxford Journals)
25. *Cancer Informatics* (Libertas Academica)
24. *Cell* (Cell Press)
23. *Cell Systems* (Cell Press)
22. *Cell Death and Disease* (Nature Publishing Group)
21. *Data Mining and Knowledge Discovery*
20. *Discrete Mathematics* (Elsevier)
19. *Discrete Applied Mathematics* (Elsevier)
18. *FEBS Letters* (Elsevier)
17. *Genome Biology* (BioMed Central)
16. *IEEE Transactions on Computational Biology and Bioinformatics* (IEEE Computer Society)
15. *IEEE Transactions on Neural Networks and Learning Systems* (IEEE Computer Society)
14. *Journal of Complex Networks* (Oxford Journals)
13. *Nature* (Nature Publishing Group)

12. *Nature Biotechnology* (Nature Publishing Group)
11. *Nature Communications* (Nature Publishing Group)
10. *Nature Computational Science* (Nature Publishing Group)
9. *Nature Methods* (Nature Publishing Group)
8. *Nature Protocols* (Nature Publishing Group)
7. *Network Science* (Cambridge University Press)
6. *Nucleic Acids Research* (Oxford Journals)
5. *PLoS Computational Biology* (Public Library of Science)
4. *PLoS One* (Public Library of Science)
3. *Proceedings of the National Academy of Sciences (PNAS),* (National Academy of Sciences (NAS))
2. *Proteins: Structure, Function, and Bioinformatics* (Wiley)
1. *Science* (AAAS)

Conference Paper Reviewer:

58. Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB), Liverpool, UK, July 20-24, 2025
57. Computer Methods in Biomechanics and Biomedical Engineering (CMBBE), UPF Ciutadella Campus, Barcelona, Spain, September 3-5, 2025
56. FRCCS 2025: The French Regional Conference on Complex Systems, Bordeaux, France May 21 – 23, 2025
55. Complex Networks 2024, Istanbul, Turkey, December 10-12, 2024
54. ACM BCB 2024, Shenzhen, Guangdong Province, PR China, November 22-25, 2024
53. ISMB 2024, Montreal, Canada, July 12 - 26, 2024
52. FRCCS 2024: The French Regional Conference on Complex Systems, Montpellier, France, May 29-31, 2024
51. ISMB/ECCB 2023, Lyon, France, July 23 - 27, 2023
50. Complex Networks 2023, French Riviera, France, 28 - 30 November, 2023
49. FRCCS 2023: The Third French Regional Conference on Complex Systems, Le Havre, France, May 31, 2023 - Jun 2, 2023
48. The 13th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB 2022), Chicago, IL, USA, August 7-10, 2022
47. The Seventh International Workshop on Computational Network Biology: Modeling, Analysis, and Control (CNB-MAC 2022), Chicago, IL, USA, August 7, 2022
46. Complex Networks 2022, Palermo, Italy, November 8-10, 2022
45. Complex Networks 2021, Madrid, Spain, November 30 – December 2, 2021
44. International Symposium on Mathematical and Computational Oncology (ISMCO), October 11-13, 2021
43. ACM BCB 2021 (The 12th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB), August 1-4, 2021
42. ISCM/ECCB COSI Committee, July 25-30, 2021

41. Belgrade Bioinformatics Conference, BelBi 2021, Belgrade, Serbia, June 21-25, 2021
40. ISMB 2020, Montreal, Canada, July 13-16, 2020
39. RECOMB 2020, Padova, Italy, May 10-13, 2020
38. ISMCO 2020 (International Symposium on Mathematical and Computational Oncology), San Diego, CA, USA, October 8-10, 2020
37. Complex Networks 2020, Madrid, Spain, December 1-3, 2020
36. Complex Networks 2019, Lisbon, Portugal, December 10-12, 2019
35. ISBM/ECCB 2019, Basel, Switzerland, July 21-25, 2019
34. RECOMB 2019, Washington, DC, USA, May 5-9, 2019
33. International Symposium on Mathematical and Computational Oncology (ISMCO) 2019, Incline Village, Lake Tahoe, NV, USA, April 29 - May 1, 2019
32. COMPLEX NETWORKS 2018, Cambridge, UK, December 11 - 13, 2018
31. ISMB 2018, Chicago, USA, July 6-10, 2018
30. RECOMB 2018, Paris, France, April 21-24, 2018
29. COMPLEX NETWORKS 2017, Lyon, France, November 29 - December 1, 2017
28. ISMB/ECCB 2017, Prague, CZ, July 21-25, 2017
27. Research in Computational Molecular Biology (RECOMB) 2016, Los Angeles, CA, USA, April 17-21,2016
26. ACM-BCB 2015, Atlanta, GA, USA, September 9-12, 2015
25. ISMB/ECCB 2015, Dublin, Ireland, July 10 - July 14, 2015
24. Brazilian Symposium on Bioinformatics (BSB) 2014, Belo Horizonte, MG, Brazil, October 28-30, 2014
23. ECCB 2014 satellite workshop on Computational Integrative Biology Methods for Drug Development, Strasbourg, France, September 7, 2014
22. ISMB 2014, Boston, USA, July 11-15, 2014
21. IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS), Miami Beach, FL, USA, June 2-4, 2014
20. ACM-BCB 2013, Washington DC, Sep 22-25, 2013
19. ISMB/ECCB 2013, Berlin, Germany, July 19-23, 2013
18. ECCB 2012, Basel, Switzerland, September 9 - 12, 2012
17. Brazilian Symposium on Bioinformatics (BSB & EBB), Campo Grande, Mato Grosso do Sul, Brazil, August 13-17, 2012
16. ISMB 2012, Long Beach, California, USA, July 15-17, 2012
15. RECOMB 2012, Barcelona, Spain, April 21-24, 2012
14. ISMB/ECCB 2011, Vienna, Austria, July 15 - July 19, 2011
13. ACM-BCB 2011, Chicago, USA, August 1-3, 2011
12. Intelligent Systems for Molecular Biology (ISMB) 2010, Boston, USA, July 11 - July 13, 2010
11. ACM International Conference on Bioinformatics and Computational Biology (ACM-BCB), Niagara Falls, NY, USA, August 2-4, 2010

10. Immunoinformatics and Computational Immunology Workshop (ICIW 2010), in conjunction with ACM International Conference on Bioinformatics and Computational Biology (ACM-BCB), Niagara Falls, NY, USA, August 2-4, 2010
9. Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB) 2009, Stockholm, Sweden, June 27 - July 2, 2009
8. 2009 American Medical Informatics Association (AMIA) Summit on Translational Bioinformatics (STB 2009), San Francisco, CA, March 15-17, 2009
7. International Workshop on Data Mining in Bioinformatics (BIOKDD '08) at the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (SIGKDD'08), Las Vegas, NV, USA, August 24-27, 2008
6. Computational Systems Bioinformatics (CSB '08), Stanford, CA, August 25-29, 2008
5. Combinatorial Pattern Matching (CPM '08), Pisa, Italy, June 18-20, 2008
4. International Workshop on Data Mining in Bioinformatics (BIOKDD '07) at the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (SIGKDD '07), San Jose, CA, USA, August 12, 2007
3. Intelligent Systems for Molecular Biology and European Conference on Computational Biology (ISMB/ECCB '07), Vienna, Austria, July 21-25, 2007
2. Pacific Symposium on Biocomputing (PSB '07), Maui, Hawaii, January 3-7, 2007
1. Intelligent Systems for Molecular Biology (ISMB '06), Fortaleza, Brazil, August 6-10, 2006

University Service:

9. Tenure and Promotion Committee Member , MBZUAI, 2026 – present
8. Faculty Recruitment Committee Member, MBZUAI, 2025 – present
7. Member of Machine Learning Focus Group of ELIXIR Europe (distributed infrastructure for biological data) at Barcelona Supercomputing Center, 2019 – 2024
6. Member of the Working group on Artificial Intelligence (AI) for the Severo Ochoa Center of Excellence at Barcelona Supercomputing Center, 2019
5. Member of the Project Board for the Data Storage Improvement Project, University College London, 2017-2018
4. MSc in in Bioinformatics and Theoretical Systems Biology Coordinator, Department of Computing, Imperial College London, 2009–2016
3. School of Information and Computer Sciences (ICS) representative to the UC Irvine Senate Assembly, 2008-2009
2. Graduate Committee, Information and Computer Science (ICS), UCI, 2006–2008
1. Computing Committee, Information and Computer Science (ICS), UCI, 2005–2006

Service as a Student:

4. President: Computer Science Graduate Student Society, U of T, 2000-2002
3. Executive member: Computer Science Graduate Student Society, U of T, 1998-2004
2. Graduate Student Representative: Graduate Committee, Department of Computer Science, U of T, 1998-2001
1. President: International Students' Club, Simon Fraser University, 1995-1996

Teaching

Taught Graduate Courses:

19. RES799 and RES899: Research Methods, MBZUAI, UAE, Fall 2025
    - Course coordinator
    - Enrollment: 40 students
18. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2016
    - Enrollment: 123 students
17. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2015
    - Enrollment: 93 students
16. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2014
    - Enrollment: 84 students
15. Bioinformatics II, MSc in Bioinformatics and Theoretical Systems Biology, Imperial College London, Fall 2013
    - Enrollment: 18 students
14. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2013
    - Enrollment: 87 students
13. Bioinformatics II, MSc in Bioinformatics and Theoretical Systems Biology, Imperial College London, Fall 2012
    - Enrollment: 16 students
12. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2012
    - Enrollment: 65 students
11. Bioinformatics II, MSc in Bioinformatics and Theoretical Systems Biology, Imperial College London, Fall 2011
    - Enrollment: 24 students
10. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2011
    - Enrollment: 80 students
9. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2010
    - Enrollment: 27 students
8. COMPSCI 265 Graph Algorithms, ICS, UCI, Winter 2009
    - Enrollment: 12 students
    - Student Evaluations – Overall Median: 7 (on 0-9 scale); 8 students responded
7. COMPSCI 288A Biological Networks, ICS, UCI, Winter 2009
    - Enrollment: 3 students
    - Student Evaluations – Overall Median: 9 (on 0-9 scale); 2 students responded
6. ICS 288A Biological Networks, ICS, UCI, Winter 2007
    - Enrollment: 6 students
    - Student Evaluations – Overall Median: 9 (on 0-9 scale); 3 students responded
5. I&C SCI 280 Biological Networks, ICS, UCI, Winter 2006
    - Enrollment: 7 students

- Student Evaluations – Overall Median: 7.71 (on 0-9 scale); 7 students responded

4. I&C SCI 265 Graph Algorithms, ICS, UCI, Winter 2006
   - Enrollment: 7 students
   - Student Evaluations – Overall Median: 6.33 (on 0-9 scale); 3 students responded
3. ICS 298 Thesis Supervision ICS, UCI, Winter-Spring 2008
   - Enrollment: 3 students
2. I&C SCI 299: Individual Study, ICS, UCI, 2006-2009
   - Enrollment: 5 students
1. I&C SCI 290: Research Project, ICS, UCI, 2006-2009
   - Enrollment: 4 students

Taught Undergraduate Courses:

15. 3096: Research Group Project, Comp. Sci., University College London, Winter 2018
14. 3095: Research Methods, Computer Science, University College London, Fall 2017
13. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2016
    - Enrollment: 123 students
12. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2015
    - Enrollment: 93 students
11. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2014
    - Enrollment: 84 students
10. Bioinformatics II, MSc in Bioinformatics and Theoretical Systems Biology, Imperial College London, Fall 2013
    - Enrollment: 18 students
9. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2013
   - Enrollment: 87 students
8. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2012
   - Enrollment: 65 students
7. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2011
   - Enrollment: 80 students
6. 341: Introduction to Bioinformatics, Computing, Imperial College London, Winter 2010
   - Enrollment: 27 students
5. ICS 139W: Critical Writing, ICS, UCI, Winter 2009
   - Enrollment: 58 students
   - Student Evaluations – Overall Median: 7 (on 0-9 scale); 19 students responded
4. CS 163: Graph Algorithms, ICS, UCI, Spring 2008
   - Enrollment: 49 students
   - Student Evaluations–Overall Median: 6.65 (on 0-9 scale); 17 students responded
3. ICS 139W: Technical Writing, ICS, UCI, Winter 2007
   - Enrollment: 53 students

– Student Evaluations–Overall Median: 8.50 (on 0-9 scale); 16 students responded

2. ICS 139W: Technical Writing, ICS, UCI, Winter 2007
   – Enrollment: 30 students
   – Student Evaluations–Overall Median: 7 (on 0-9 scale); 9 students responded
1. I&C SCI 199: Individual Study, ICS, UCI, Spring and Fall 2006
   – Enrollment: 2 students

Developed a New Undergraduate/Graduate Course:

1. 341: Introduction to Bioinformatics, Department of Computing, Imperial College, first offered in Spring 2010

Developed New Graduate Courses:

2. Analyzing Multi-Omics Network Data in Biology and Medicine, MBZUAE, UAE, first to be offered in Fall 2026
1. I&C SCI 288A Biological Networks, ICS, UCI, first offered in Winter 2007

Student Supervision

Ph.D. Alumni:

15. Katarina Mihajlovic, Ph.D., 2025, Artificial Intelligence PhD Program, Computer Science Department, Universitat Politecnica de Catalunya (UPC), ES
    Thesis: "Data integration of longitudinal single-cell with multi-omics data to enable precision medicine for complex diseases"
    – Now a post-doc at BSC, Barcelona, Spain
14. Mikhail Rotkevich, Ph.D., 2024, Artificial Intelligence PhD Program, Computer Science Department, Universitat Politecnica de Catalunya (UPC), ES
    Thesis: "Revealing the hidden language of DNA"
    – Now a post-doc in Prof. Cosma's lab, CRG, Barcelona, Spain
13. Alexandros Xenos, Ph.D., 2024, Artificial Intelligence PhD Program, Computer Science Department, Universitat Politecnica de Catalunya (UPC), ES
    Thesis: "Towards a linearly organized embedding space of biological networks"
    – Now a post-doc in Prof. Pržulj's lab, Barcelona Supercomputing Center, Spain
12. Carme Zambrana, Ph.D., 2023, Artificial Intelligence PhD Program, Computer Science Department, Universitat Politecnica de Catalunya (UPC), ES
    Thesis: "New data integration methods for drug re-purposing by mining heterogeneous omics data"
    – Now a post-doc in Prof. Pržulj's lab, Barcelona Supercomputing Center, Spain
11. Sergio Doria, Ph.D., 2023, Bioinformatics, Department of Biomedicine, University of Barcelona, ES
    Thesis: "Deciphering the functional organization of molecular networks via graphlets-based methods and network embedding techniques"
    – Now a Scientist in Computational Systems Biology at Bristol Myers Squibb (BMS), Sevilla, Spain

10. Daniel Tello, Ph.D., 2023, Bioinformatics, Department of Biomedicine, University of Barcelona, ES
    Thesis: "Uncovering the functional organization of molecular interaction networks using network embeddings based on graphlet topology"
    – Now an Associate Researcher at the Hospital 12 de Octubre in the Instituto de Investigación Hospital 12 de Octubre (IMAS12), Madrid, Spain
9. Sam Windels, Ph.D., 2022, Computer Science, University College London, UK
    Thesis: "Graphlet-adjacencies provide complementary views on the functional organisation of the cell and cancer mechanisms"
    – Now a post-doc in Prof. Pržulj's lab, Barcelona Supercomputing Center, Spain
8. Thomas Gaudelet, Ph.D., 2021, Computer Science, University College London, UK
    Thesis: "Integration of multi-scale protein interactions for biomedical data analysis"
    – Now Associate Director of Machine Learning Research, Relation Therapeutics, London, UK
7. Anida Sarajlic, Ph.D., 2016, Department of Computing, Imperial College London, UK
    Thesis title: "Analysing Directed Network Data"
    – Now a software consultant in London, UK
6. Vuk Janjic, Ph.D, 2015, Department of Computing, Imperial College London, UK
    Thesis title: "Mining real-world networks in systems biology and economics"
    – Now a software developer in a bank in London City, UK
5. Kai Sun, Ph.D., 2014, Department of Computing, Imperial College London, UK
    Thesis title: "Uncovering Disease Associations via Integration of Biological Networks"
    – Now Institute Manager, Data Science Institute at Imperial College London, UK
4. Omer Yaveroglu, Ph.D., 2014, Department of Computing, Imperial College London, UK
    Thesis title: "Graphlet Correlations for Network Comparison and Modelling: World Trade Network Example"
    – Now a Senior Software Engineer at Google, London, UK; previously a post-doc at UC Irvine, CA, USA
3. Prof. Tijana Milenkovic, Ph.D., 2010, Computer Science, UC Irvine, USA
    Thesis title: "From Topological Network Analyses and Alignments to Biological Function, Disease, and Evolution"
    – Now a tenured Full Professor in Computer Science, University of Notre Dame, IN, USA
2. Oleksii Kuchaiev, Ph.D., 2010, Computer Science, UC Irvine, USA
    Thesis title: "Modeling and Alignment of Biological Networks"
    – Now a Senior Applied Research Manager in AI Applications at NVIDIA, San Francisco, CA, USA
    – Previously a Senior Applied Researcher, Apple, USA
    – Previously a Research Engineer, Microsoft, Redmond, USA
1. Vesna Memisevic, Ph.D., 2010, Computer Science, UC Irvine, USA
    Thesis title: "Uncovering Biological Knowledge from Network Structure"
    – Now a Senior Applied Scientist at Amazon, Seattle, WA, USA
    – Previously a Scientist at Biotechnology HPC Software Application Institute, US Army, Frederick, USA

M.Sc. Alumni:

10. Sam Windels, M.Sc. Computing, 2015, Imperial College London
9. Varun Verma, M.Eng. Computing, 2015, Computing, Imperial College London
8. Vasileios Smyrlis, M.Eng. Bioengineering, 2015, Imperial College London
7. Javier Tapial, M.Sc. Bioinformatics and Theoretical Systems Biology, 2014, Imperial College London
6. Razvan Marinescu, M.Eng. Computing, 2014, Imperial College London
5. Miles Mulholland, M.Eng. Computing, 2011, Imperial College London
4. Aleksandar Stevanovic, M.Sc., 2010, Computer Science, UC Irvine. Thesis title: "Models of Biological Networks and a Software Tool for Network Analysis"
3. Oleksii Kuchaiev, M.Sc., 2009, Computer Science, UC Irvine. Thesis title: "Geometric graphs in biological networks"
2. Tijana Milenkovic, M.Sc., 2008, Computer Science, UC Irvine. Thesis title: "Interplay of topology and biology in protein-protein interaction networks"
1. Hania El Ayoubi, M.Sc., 2007, Computer Science, University of Toronto. Co-supervised by Prof. D. G. Corneil. Project title: "Proposing new protein-protein interaction network models validated by emerging data and network-characterizing metrics"

Supervised Post-doctoral Fellows:

18. Uxia Velerio Carril, MBZUAI, post-doc, April 2026 – present
17. Tarmo Nurmi, MBZUAI, post-doc, October 2025 – present
16. Noel Malod-Dognin, MBZUAI (previously also at BSC, UCL, Imperial), senior scientist, September 2012 – present
15. Stevan Milinkovic, senior scientist, MBZUAI, February 2025 – present
14. Sam Windels, MBZUAI (previously also at BSC), post-doc, Oct 2022 – Feb 2026
13. Alexandros Xenos, BSC, February 2024 – May 2025
12. Carme Zambrana, BSC, post-doc, November 2023 – May 2025
11. Carlos Jesus Garcia Hernandez, post-doc, BSC, February 2021 – January 2024
10. Daniel Tello, BSC, post-doctoral visitor, May – September 2023
9. Gaia Caddia, BSC, January 2021 – October 2022
8. Rene Bottcher, BSC, January – September 2020
7. Pau Clusella, BSC, March – June 2019
6. Chhedi Gupta, Computer Science Department, University College London, Nov 2017 – Nov 2018
5. Remi Momo, Computer Science Department, University College London, Dec 2017 – May 2018
4. Julia Petschnigg, Computer Science Department, University College London, June-November 2017
3. Omer Nebil Yaveroglu, Calit2, UC Irvine, January 2014 – September 2015
2. Joana P. Goncalves, Department of Computing, Imperial College, April – December 2012

1. Marija Rasajski, Information and Computer Science (ICS), UCI, May 2007 – May 2008 – Now a Full Professor in the Department of Applied Mathematics, School of Electrical Engineering, University of Belgrade, Serbia

Supervised Ph.D. Students:

23. Branislava Jankovic, MBZUAI, 2025 – present
22. Aleksandr Matsun, MBZUAI, 2025 – present
21. Laura Figueiredo Tor, Ph.D. student, BSC and UPC, December 2024 – April 2025
20. Katarina Mihajlovic, Ph.D. student, BSC and UPC, November 2020 – April 2025
19. Zuqi Li (co-supervisor), Ph.D. student, KU Lueven, 2020 – 2025
18. Mikhail Rotkevich, Ph.D. student, BSC and UPC, September 2019 – March 2024
17. Alexandros Xenos, Ph.D. student, BSC and UPC, September 2019 – January 2024
16. Maria del Carmen Zambrana, Ph.D. student, BSC and UPC, September 2019 – November 2023
15. Milana Raickovic, Ph.D. student, BSC and UPC, September 2021 – August 2023
14. Sergio Dora, Ph.D. student, BSC and BU, May 2019 – 2023
13. Daniel Tello, Ph.D. student, BSC and BU, May 2019 – 2023
12. Amine Kaddioui, Ph.D. student, part-time, UCL, September 2017 – present
11. Sam Windels, Ph.D. student, UCL, September 2016 – September 2022
10. Thomas Gaudelet, Ph.D., UCL, September 2016 – February 2021
9. Markus Youssef, Ph.D. student, BSC, July 2019 – July 2020
8. Vladimir Gligorijevic, Ph.D., Imperial College, December 2013 – March 2016
7. Anida Sarajlic, Ph.D., Imperial College, September 2012 – December 2015
6. Vuk Janjic, Ph.D., Imperial College, April 2011 – February 2015
5. Kai Sun, Ph.D., Imperial College, October 2010 – June 2014
4. Omer Nebil Yaveroglu, Ph.D., Imperial College London, October 2010 – December 2013
3. Tijana Milenkovic, Ph.D., ICS, UCI, September 2006 – March 2010
2. Vesna Memisevic, Ph.D., ICS, UCI, September 2007 – June 2010
1. Oleksii Kuchaiev, Ph.D., ICS, UCI, September 2007 – June 2010

External Reviewer of Habilitation Theses:

2. Chloe-Agathe Azencott, CBIO Mines ParisTech - Institut Curie - INSERM, December 2019
1. Peter Klimek, Medical University of Vienna & CSH Faculty, Austria, May 2019

External Reviewer / Examiner / Opponent of Ph.D. Theses:

15. Mario Alberto Gutierrez Mondragon, University Polytechnic Catalonia (UPC), September 2025
14. Tarmo Nurmi, Aalto University, Helsinki, Finland, June 2025
13. Vincent Gureghian, University of Luxembourg, Luxembourg, October 2023

12. Hendrik de Weerd, Linkoping University, Linkoping, Sweden, February 2023
11. Oliver Snow, Simon Fraser University, Vancouver, Canada, August 2022
10. Diego Salazar, University of Andes, Bogota, Colombia, June 2022
9. Gaia Ceddia, Politecnico di Milano, Department of Electronics, Information and Bioengineering, Doctoral Programme In Computer Science Engineering, Milano, Italy, December 2020
8. Michael Caldera, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria, 2020
7. Ine Melckenbeeck, Gent University, Belgium, May 2019
6. Lorraine Ayad, King's College London, UK, February 2019
5. Raphael Charbey, Telecom ParisTech, Paris, France, November 2018
4. Jonathan Cardoso Silva, King's College London, UK, May, 2018
3. Josch Konstantin Pauling, University of Southern Denmark, August 1, 2016
2. Eudes Guilherme Vieira Barbosa, University of Southern Denmark, July 29, 2016
1. Richard Rottger, Naturwissenschaftlich-Technischen Fakultat I, Saarbrucken, Germany, February 2014

Served on Ph.D. Committees of:

21. Yingxu Wang, MBZUAE, 2025 – present
20. Iker Nunez Carpintero, University of Barcelona, 2020 – 2023
19. Joel Hancock, Research Center for Molecular Medicine of the Austrian Academy of Sciences, 2019 – 2022
18. Diego Salazar, University of Andes, Bogota, Colombia, 2019 – 2022
17. Stephen Kamrad, Francis Crick Institute, London, 2016 – 2021
16. Vladimir Gligorijevic, Ph.D. transfer, Imperial College, December 2014
15. Anida Sarajlic, Ph.D. transfer, Imperial College, June 2013
14. Vuk Janjic, Ph.D. transfer, Imperial College, February 2012
13. Kai Sun, Ph.D. transfer, Imperial College, June 2011
12. Omer Nebil Yaveroglu, Ph.D. transfer, Imperial College, June 2011
11. Vesna Memisevic, Ph.D., Computer Science, UCI. May 28, 2010, Ph.D. Defence, Ph.D. Advisor
10. Oleksii Kuchaiev, Ph.D., Computer Science, UCI. May 27, 2010, Ph.D. Defence, Ph.D. Advisor
9. Tijana Milenkovic, Ph.D., Computer Science, UCI. Dec. 3, 2009, Ph.D. Defence, Ph.D. Advisor
8. Weng Leong Ng, Ph.D. candidate, Computer Science, UCI. Sept. 11, 2009, Ph.D. Candidacy Exam, Committee member
7. Oleksii Kuchaiev, Ph.D. candidate, Computer Science, UCI. June 12, 2009, Ph.D. Candidacy Exam, Ph.D. Advisor
6. Vesna Memisevic, Ph.D. candidate, Computer Science, UCI. June 11, 2009, Ph.D. Candidacy Exam, Ph.D. Advisor

5. Tijana Milenkovic, Ph.D. candidate, Computer Science, UCI. July 3, 2008, Ph.D. Candidacy Exam, Ph.D. Advisor
4. Martin Brandon, Ph.D. candidate, Information and Computer Science (ICS), UCI. December 13, 2006, Ph.D. Topic Defense, Committee member
3. Harindar Keer, Ph.D. candidate, Chemistry, UCI. March 21, 2007, Ph.D. Candidacy Exam, Committee member
2. Shyam Srinivasan, Ph.D. candidate, Information and Computer Science (ICS), UCI. 2006, Ph.D. Candidacy Exam, Committee member
1. David Joshua Dibble, Ph.D. candidate, Organic Chemistry, UCI. 2006, Ph.D. Candidacy Exam, Committee member

Undergraduate Students:

6. Razvan Marinescu, Computing, Imperial College London, May 2012 – June 2014
5. Brigitta Devenyi, Computing, Imperial College London, Oct. 2010 – June 2011
4. Vitaliy Kozak, Math and Computing, Imperial College London, Oct. 2009 – June 2010
3. Naveen Nathan, ICS, UCI, June 2007 – December 2007
2. David Hubin, ICS, UCI, March 2006 – June 2007. Recipient of a SURP UCI award for Summer 2006 and a UROP UCI award for 2006/07
1. Jason Lai, ICS, UCI, October 2005 – June 2007

High-School Student:

1. Stefan Covic, May 2006

Competitive Research Funding

Won over €27,000,000 in total in competitive research funding since the start of her career in 2005:

28. **MBZUAI – Core Funding**
PI: Nataša Pržulj, MBZUAI
Funding period: 2025 – present, yearly core research fund
Funds received: $495,000 USD per year

27. **Integrative Multiscale Neurodegenerative Disease Analysis – INDA**
Non-contracting Partner: Nataša Pržulj, MBZUAI
PI: Alexander Skupin, University of Luxembourg
Funding Organization: Luxembourg National Research Fund (FNR)
Funding period: 2026 – 2029
Funds received: €1,156,527

26. **ERC Consolidator Grant**
Title: Discovering the (R)Evolution of EurAsian Steppe Metallurgy – DREAM
Senior Team Member: Nataša Pržulj, MBZUAI
PI: Miljana Radivojevic, University College London, UK
Funding Organization: European Research Council
Funding period: 2025 – 2030
Funds received: €2,000,000

25. **COST Action CA24166**
Title: Pan-European Network for Inflammaging: A Multi-omics Integration Approach (INFLAMomx)
Co-PI: Nataša Pržulj, MBZUAI
Funding Organization: European Cooperation in Science and Technology
Funding period: 29/9/2025 – 28/9/2029
Web: https://www.cost.eu/actions/CA24166/
Funds received: over €130,000 per year

24. **Artificial Intelligence Research Alliance (AIRA) Ramon Llull Post-doctoral Programme**
Title: RAMON LLULL-AIRA Postdoctoral Programme
Co-PI: Nataša Pržulj, Barcelona Supercomputing Center (BSC)
Funding Organization: European Commission, Horizon Europe (HORIZON-MSCA-COFUND-2022) and the Catalan Government
Funding period: 2025 – 2028
Funds received: €9,455,811 (out of which four post-doc positions to BSC)

23. Spanish State Research Agency and the Ministry of Science and Innovation MCIN grant PID2022-141920NB-I00
Title: Towards a Better Understanding of Omic Data and Disease (TOBUODAD)
PI: Nataša Pržulj, Barcelona Supercomputing Center (BSC)
Funding period: 2024 – 2027
Funds received: ≈ €300,000

22. **ERC Consolidator Grant**
Title: Integrated Connectedness for a New Representation of Biology
PI: Nataša Pržulj, Barcelona Supercomputing Center (BSC)
Funding Organization: European Research Council
Funding period: 2018 – 2025
Funds received: €2,000,000

21. Ajuts per donar suport a l activitat cientifica dels grups de recerca de Catalunya (SGR-Cat 2021)
PI: Nataša Pržulj, Barcelona Supercomputing Center
Title: Integrative Computational Network Biology (INCONBI)
Funding period: 2022-2025
Funds received: €36,000

20. **Marie Sklodowska-Curie Innovative Training Networks (ITN)**, EU
Title: Translational SYStemics: Personalised Medicine at the Interface of Translational Research and Systems Medicine (TranSYS)
co-PI (out of 13 co-PIs): Nataša Pržulj, Barcelona Supercomputing Center (BSC)
Coordinator: Prof. Kristel Van Steen, KU Luven
Funding period: 2019–2024
Funds received: €3,773,226 (out of which €250,904 to Prof. Pržulj's lab)

19. **Barcelona Supercomputing Center – Core Funding**
PI: Nataša Pržulj, Barcelona Supercomputing Center (BSC)
Funding period: 2019 – 2024
Funds received: €570,000

18. **ERC Proof of Concept Grant**
    Title: Genomic Data-Fusion Platform for Omics-Driven Precision Medicine
    PI: Nataša Pržulj, Barcelona Supercomputing Center (BSC)
    Funding Organization: European Research Council
    Funding period: 2020 – 2023
    Funds received: €150,000

17. The Spanish State Research Agency AEI 10.13039/501100011033
    PI: Nataša Pržulj, Barcelona Supercomputing Center
    Title: Multi-omic multi-scale comparative and integrative network analyses (MultiNet)
    Funding period: 2020–2023
    Funds received: €57,000

16. H2020-ICT-2018-2020 Research & Innovation Action (RIA)
    Title: Interactive Extreme-Scale Analytics and Forecasting (INFORE)
    Coordinator: Prof. Antonios Deligiannakis, School of Electrical and Computer Engineering, TU Crete
    Participant: Nataša Pržulj, BSC
    Funding period: 2019-2022
    Funds received: €4,435,586 (out of which €502,500 to BSC)

15. Slovenian Research Agency (ARRS)
    PI: Nataša Pržulj, Institute of Mathematics, Physics and Mechanics (IMFM), Ljubljana, Slovenia
    Funding Organization: Slovenian Research Agency (ARRS)
    Funding period: 01/05/2017 – 30/04/2020
    Funds received: €300,000

14. University College London, Computer Science Department, Start-up:
    PI: Nataša Pržulj, University College London
    Two Ph.D. studentships
    Funding period: 2016–2020

13. The Prostate Project Charity, UK
    PI: Nataša Pržulj, University College London
    Funding period: 2017–2019
    Funds received: £52,000

12. The Farr Institute for Health Informatics Research, UK:
    PI: Nataša Pržulj, University College London
    Two post-doctoral fellowships
    Funding period: 2016–2018
    Funds received: £140,572.48

11. **ERC Starting Independent Researcher Grant**
    Title: Network Topology Complements Genome as a Source of Biological Information
    PI: Nataša Pržulj, Imperial College and University College London
    Funding Organization: European Research Council
    Funding period: 01/01/2012 – 31/12/2017
    Funds received: €1,638,175

10. NSF CDI-Type II
    Title: Topology and Function in Computer, Social and Biological Networks
    PI: Athina Markopoulou, UC Irvine
    Co-PIs: Carter Butts and Nataša Pržulj, UC Irvine
    Funding Organization: National Science Foundation of the USA
    Funding period: 10/01/2010 – 09/30/2016
    Funds received: $1,999,503

9. Slovenian Research Agency (ARRS) J1-5454
    Title: Unravelling Biological Networks
    PI: Nataša Pržulj, Faculty of Information Studies, Novo Mesto, Slovenia
    Funding Organization: Slovenian Research Agency (ARRS)
    Funding period: 01/08/2013 – 31/07/2016
    Funds received: €150,000

8. Serbian Ministry of Education and Science
    Title: III44006: Algorithms, combinatorics and optimization with applications in internet technologies, social networks, wireless networks and mobile communications, biological networks, optical networks and supply chain management
    PI: Zoran Ognjanovic, Mathematics Institute of the Serbian Academy of Arts and Sciences
    co-PI: Nataša Pržulj
    Funding Organization: Serbian Ministry of Education and Science
    Funding period: 01/01/2011 – present
    Funds received: €31,200 to Prof. Pržulj's lab

7. GlaxoSmithKline Ph.D. studentships
    PI: Nataša Pržulj, Imperial College London
    Funding period: 2010–2014
    Funds received: £80,000

6. Imperial College London, Dept. of Computing, Start-up:
    PI: Nataša Pržulj, Imperial College London
    One Ph.D. studentship
    Research and travel support
    Funding period: 2009–2013

5. NSF CAREER
    Title: Tools for Analyzing, Modeling, and Comparing Protein-Protein Interaction Networks
    PI: Nataša Pržulj, UC Irvine
    Funding Organization: National Science Foundation of the USA
    Funding period: 2007–2011
    Funds received: $569,905

4. UCI Set-up:
    PI: Nataša Pržulj, UC Irvine
    Funding Organization: UC Irvine, School of Information and Computer Sciences
    Funding period: 2005–2011
    Funds received: $200,000

3. UCI Council on Research, Computing and Library Resources (CORCLR):
    PI: Zoran Nenadic, Biomedical Engineering, UC Irvine
    co-PI: Nataša Pržulj, Computer Science, UC Irvine

Funding Organization: Council on Research, Computing and Library Resources, UCI
Funding period: 2008–2009
Funds received: $11,800

2. UCI Center for Complex Biological Systems (CCBS):
PI: Nataša Pržulj, Computer Science, UC Irvine
co-PI: Zoran Nenadic, Biomed. Engineering, UCI
Funding Organization: Center for Complex Biological Systems (CCBS), UCI
Funding period: 2008
Funds received: $10,000

1. UCI Center for Complex Biological Systems (CCBS):
PI: Nataša Pržulj, Computer Science, UC Irvine
co-PI: Anand Ganesan, Dermatology, UCI
Funding Organization: Center for Complex Biological Systems (CCBS), UCI
Funding period: 2008
Funds received: $10,000

Experience Details

Full Professor, Computational Biology, MBZUAI, Abu Dhabi, UAE
January 2025 – present

ICREA Research Professor, Barcelona Supercomputing Center (BSC), Spain
January 2019 – present
– On leave from January 2025

Full Professor, Computer Science Department, University College London, UK
April 2016 – present
– On leave from January 1, 2019

Associate Professor (Reader), Dept. of Computing, Imperial College London, UK
August 2012 – March 2016
Assistant Professor
October 2009 – July 2012

Assistant Professor, Department of Computer Science, UC Irvine, Irvine, CA, USA
July 2005 – July 2010
– On leave to Imperial College London from October 2009

Visiting Research Scientist (20% time) California Institute for Telecommunications and Information Technology
October 2010 – 2016

Professor (0% appointment), School of Computing (RAF), Union University, Belgrade
June 2013 – present
Associate Professor (0%)
October 2008 – June 2013

Scientific Advisor (20%), Inštitut za matematiko fiziko in mehaniko, Ljubljana, Slovenia
June 2017 – April 2020

Full Professor (20%), Faculty of Information Studies, Novo Mesto, Slovenia
August 2013 – July 2016

Scientific Advisor (**Naučni Savetnik**) of the Mathematics Institute of the Serbian Academy of Sciences and Arts (Srpska Akademija Nauka i Umetnosti, SANU)
2012 – present

Postdoctoral Fellow, Samuel Lunenfeld Research Institute, Toronto, ON, Canada
March 2005 – June 2005
SUPERVISOR: Jeff Wrana
- Prof. Przulj analyzed and modeled protein-protein interaction networks. Her models were used to guide biological experiments for identifying protein-protein interactions.

Research Assistant, Banting and Best Institute, University of Toronto, ON, Canada
September 2002 - May 2003
- Analyzed large networks of protein interactions using novel graph-theoretic approaches.

Teaching Assistant and Substitute Instructor, University of Toronto, ON, Canada
May 1999 - May 2002
- Gave lectures, tutorials, and office hours, marked assignments, supervised and marked exams for the following courses:

First year course:
Teaching Assistant and Substitute Instructor: CSC 199 Beautiful Algorithms, Fall 2001 and Spring 2002.

Second year course:
Teaching Assistant: CSC 238 Discrete Mathematics, Summer 1999 and Summer 2001.

Third year course:
Teaching Assistant: MATC32 Graph Theory and Algorithms, University of Toronto at Scarborough, Fall 2000.

Graduate course:
Teaching Assistant: CSC 2414 Topics in Applied Discrete Mathematics: Analysis of Algorithms, Spring 2002.

Visiting Ph.D. Student, The Fields Institute, Toronto, ON, Canada
January 2000 - December 2000

Programming Consultant, Westech Information Systems, Vancouver, BC, Canada
May 1997 - August 1998
- Prof. Przulj worked full-time as a programming consultant on the GIS Smallworld team, and provided programming services for object oriented AM/FM/GIS systems on the Windows NT platform. She developed Object Oriented GUI GIS utility applications in Smallworld Magik, translated data from GFIS to Smallworld, installed an Oracle Server and made an interface between Oracle and Smallworld applications. She also performed System Administration GIS tasks such as image building and maintenance.

Research Assistant, Simon Fraser University, Burnaby, BC, Canada
September 1996 - December 1996 and September 1997 - December 1997
- Worked under the supervision of Prof. A. Liestman on network broadcasting problems. The research resulted in the paper J-1 listed above, and the talk CT-1 listed above.

Teaching Assistant, Simon Fraser University, Burnaby, BC, Canada
January 1996 - April 1996
- MAT 154, 155, 157, 158 Applied Calculus Courses. Held office hours, explained mathematical problems to students, marked homework, supervised and marked exams.

Quality Assurance Engineer, Hughes Aircraft of Canada Ltd., Richmond, BC, Canada
May 1995 - Aug 1995
- Prof. Przulj reviewed and approved documents of all phases of software development, participated in meetings conducted to approve software development phases, and wrote a proprietary document entitled "Metrics Collections Instructions" for monitoring the progress of the Canadian Automated Air Traffic Control System project as part of her Natural Sciences and Engineering Research Council of Canada (NSERC) Industrial Undergraduate Student Research Award. The document was approved by Dr. K. Toth, the Quality Assurance Director, and subsequently included in the company's formal procedures. It has been used by Quality Assurance Engineers both weekly and monthly as a guide for metrics collections on the Canadian Automated Air Traffic Control System project.

Affiliations with Learned Societies

Fellow of the International Academy of Artificial Intelligence Sciences (AAIS), since 2025

Fellow of The International Society for Computational Biology (ISCB), since 2024

Fellow of The International Artificial Intelligence Industry Alliance (AIIA), since 2024

Fellow of ELLIS – European Laboratory for Learning and Intelligent Systems, since 2024

Fellow (Honorary) of European Society of Computational Methods in Sciences and Engineering (ESCMSE), since 2024

Elected into ELLIS – European Laboratory for Learning and Intelligent Systems, in 2022

Presidency of the Serbian Society for Bioinformatics and Computational Biology (BIRBI), appointed in 2021; a regular member of BIRBI since 2018

Elected into The Serbian Royal Academy of Scientists and Artists (SKANU), since 2019

ELIXIR Europe – distributed infrastructure for biological data: member of Machine Learning Focus Group, since 2019

Elected into Academia Europaea, The Academy of Europe, since 2017

Fellow of The British Computer Society (BCS), since 2013

Elected into The Young Academy of Europe (YAE), since 2013

Elected Scientific Advisor (Naučni Savetnik) of the Mathematics Institute of the Serbian Academy of Sciences and Arts (SANU), since 2012

The International Society for Computational Biology (ISCB), since 2003

References

Available upon request