PAVEL N. KRIVITSKY
SENIOR LECTURER IN STATISTICS
SCHOOL OF MATHEMATICS AND STATISTICS
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Education

'03-'09 PhD in Statistics University of Washington, Seattle, WA, USA

Thesis: Statistical Models for Social Network Data and Processes

Advisor: Mark S. Handcock

'03-'06 MS in Statistics University of Washington, Seattle, WA, USA

Advisors: Adrian E. Raftery and Mark S. Handcock

'99-'03 BS in Biometry and Statistics, Cum Laude with Distinction in Research

Cornell University, Ithaca, NY, USA

Thesis: The Effect of Integration Cell Size and *In Situ* Target Strength Calculation Method on Acoustic Fish Density Estimates for Alewife Lakes of New York State Advisors: Steven J. Schwager and Lars G. Rudstam

Positions

- 7/'20- **Senior Lecturer (US: Associate Professor) in Statistics** at University of New South Wales School of Mathematics and Statistics, Sydney, NSW, Australia
- 7/'19–6/'20 **Lecturer (US: Assistant Professor) in Statistics** at University of New South Wales School of Mathematics and Statistics, Sydney, NSW, Australia
- 7/'13–7/'19 **Lecturer (US: Assistant Professor) in Statistics** at University of Wollongong School of Mathematics and Applied Statistics and National Institute for Applied Statistics Research Australia (NIASRA), Wollongong, NSW, Australia Confirmed (Tenured): 5/'16
- 9/'11–6/'13 **Research Associate** at Pennsylvania State University Department of Statistics, University Park, PA, USA
- 9/'09–8/'11 **Visiting Research Scientist** at Carnegie Mellon University iLab at Heinz College and Department of Statistics; and Instituto Superior Técnico Institute for Systems and Robotics, Pittsburgh, PA, USA; and Lisbon, Portugal

Publications

Under Review **Pavel N. Krivitsky**, David R. Hunter, Martina Morris, and Chad Klumb. ergm 4.0: New features and improvements. *Under review*, June 2021 arXiv: 2106.04997.

Marijka Batterham and **Pavel N. Krivitsky**. Relationship Between Statistics Anxiety and Final Marks in an Introductory Biostatistics in Undergraduate Health Sciences Students. *Under review*, June 2021

Rohitash Chandra, Ayush Bhagat, Manavendra Maharana, **Pavel N. Krivitsky**. Bayesian Graph Convolutional Neural Networks via Tempered MCMC. *Under review*, April 2021. arXiv:2104.08438

Rohitash Chandra, Mahir Jain, Manavendra Maharana, **Pavel N. Krivitsky**. Revisiting Bayesian Autoencoders with MCMC. *Under review*, April 2021. arXiv:2104.05915

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Thomas Suesse, **Pavel N. Krivitsky**, and Olivier Thas. Fitting Marginalized Exponential Random Graph Models via GEE. *Under revise and resubmit*, June 2019.

Peer-Reviewed

Journal **Pavel N. Krivitsky**, Michał Bojanowski, and Martina Morris. Impact of Egocentric Survey Design on Estimable Network Features. *Social Networks*, To appear, 2020.

Pavel N. Krivitsky, Laura Koehly, and Christopher S. Marcum. Exponential-Family Random Graph Models for Multi-Layer Networks. *Psychometrika*, 85(3):630–659, 2020. doi:10.1007/s11336-020-09720-7

Luke Mazur, Thomas Suesse, and **Pavel N. Krivitsky**. Investigating Foreign Portfolio Investment Holdings: Gravity Model with Social Network Analysis. *International Journal of Finance and Economics*, 1–17, 2020. doi:10.1002/ijfe.2168

Michael Schweinberger, **Pavel N. Krivitsky**, Carter T. Butts, and Jonathan Stewart. Exponential-Family Models of Random Graphs: Inference in Finite-, Super-, and Infinite Population Scenarios. *Statistical Science*, 35(4):627–662, 2020. doi:10.1214/19-STS743

Pavel N. Krivitsky and Carter T. Butts. Exponential-Family Random Graph Models for Rank-Order Relational Data. *Sociological Methodology*, 47(1):68–112, 2017. doi: 10.1177/0081175017692623

Pavel N. Krivitsky and Martina Morris. Inference for Social Network Models from Egocentrically-Sampled Data, with Application to Understanding Persistent Racial Disparities in HIV Prevalence in the US. *Annals of Applied Statistics*, 11(1):427–455, 2017. doi:10.1214/16-AOAS1010

Pavel N. Krivitsky. Using Contrastive Divergence to Seed Monte Carlo MLE for Exponential-Family Random Graph Models. *Computational Statistics and Data Analysis*, 107:149–161, 2017. doi:10.1016/j.csda.2016.10.015

Vishesh Karwa, **Pavel N. Krivitsky**, and Aleksandra B. Slavković. Sharing Social Network Data: Differentially Private Estimation of Exponential-Family Random Graph Models. *Journal of the Royal Statistical Society, Series C*, 66(3):481–500, 2017. doi:10.1111/rssc.12185

Noel Cressie, Sandy Burden, Walter Davis, **Pavel N. Krivitsky**, Payam Mokhtarian, Thomas Suesse, and Andrew Zammit-Mangion. Capturing Multivariate Spatial Dependence: Model, Estimate, and then Predict (Discussion Paper). *Statistical Science*, 30(2):170–175, 2015. doi:10.1214/15-STS517

Pavel N. Krivitsky and Eric D. Kolaczyk. On the Question of Effective Sample Size in Network Modeling: An Asymptotic Inquiry. *Statistical Science*, 30(2):184–198, 2015. doi:10.1214/14-STS502

Nicole Bohme Carnegie, **Pavel N. Krivitsky**, David R. Hunter, and Steven M. Goodreau. An Approximation Method for Improving Dynamic Network Model Fitting. *Journal of Computational and Graphical Statistics*, 24(2):502–519, 2015. doi: 10.1080/10618600.2014.903087

Pavel N. Krivitsky and Mark S. Handcock. A Separable Model for Dynamic Networks. *Journal of the Royal Statistical Society, Series B*, 76(1):29–46, 2014. doi:10.1111/rssb.12014

David R. Hunter, **Pavel N. Krivitsky**, and Michael Schweinberger. Computational Statistical Methods for Social Network Models (Invited Paper). *Journal of Computational and Graphical Statistics*, 21(4):856–882, 2012. doi:10.1080/10618600.2012.732921

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Pavel N. Krivitsky. Exponential-Family Random Graph Models for Valued Networks. Electronic Journal of Statistics, 6:1100-1128, 2012. doi:10.1214/12-EJS696

Pavel N. Krivitsky, Mark S. Handcock, and Martina Morris. Adjusting for Network Size and Composition Effects in Exponential-Family Random Graph Models. Statistical Methodology, 8(4):319-339, 2011. doi:10.1016/j.stamet.2011.01.005

Pavel N. Krivitsky, Mark S. Handcock, Adrian E. Raftery, and Peter D. Hoff. Representing Degree Distributions, Clustering, and Homophily in Social Networks with Latent Cluster Random Effects Models. Social Networks, 31(3):204-213, 2009. doi: 10.1016/j.socnet.2009.04.001

Pavel N. Krivitsky and Mark S. Handcock. Fitting Position Latent Cluster Models for Social Networks with latentnet. Journal of Statistical Software, 24(5):1-23, 2008. http://www.jstatsoft.org/v24/i05

Proceedings Yue Ma, Yan-Xia Lin, Pavel N. Krivitsky, and Bradley Wakefield. Protection Level of a Noise Candidate for Noise Multiplication Masking Scheme. Privacy in Statistical Databases: Lecture Notes in Computer Science, 11126:279–293, 2018. doi:10.1007/978-3-319-99771-1_19

> Yan-Xia Lin and Pavel N. Krivitsky. Reviewing the Methods of Estimating the Density Function Based on Masked Data. Privacy in Statistical Databases: Lecture Notes in Computer Science, 11126:231-246, 2018. doi:10.1007/978-3-319-99771-1_16

> Vishesh Karwa, Aleksandra Slavković, and Pavel N. Krivitsky. Differentially Private Exponential Random Graphs. Privacy in Statistical Databases: Lecture Notes in Computer Science (J. Domingo-Ferrer (ed.)), 8744:143-155, 2014. doi:10.1007/978-3-319-11257-2_12

> Pavel N. Krivitsky, Pedro M. A. Ferreira, and Rahul Telang. Network Neighbor Effects on Customer Churn in Cell Phone Networks. Proceedings of the 7th Symposium on Statistical Challenges in E-Commerce Research (SCECR 2011), 2011. http://ro.uow. edu.au/eispapers/4505/

> Adrian E. Raftery, Michael A. Newton, Jaya M. Satagopan, and Pavel N. Krivitsky. Estimating the Integrated Likelihood via Posterior Simulation Using the Harmonic Mean Identity. Bayesian Statistics 8: Proceedings of the Eighth Valencia International Meeting (J. M. Bernardo, M.J. Bayarri, J. O. Berger, A. P. Dawid, D. Heckerman, A. F. M. Smith, and M. West (eds.)), 8:371-416, 2007. http://www.bepress.com/ mskccbiostat/paper6

Tech Reports & Pavel N. Krivitsky, Michał Bojanowski, and Martina Morris. Inference for Working Papers Exponential-Family Random Graph Models from Egocentrically-Sampled Data with Alter-Alter Relations. University of Wollongong National Institute for Applied Statistics Research Australia Working Paper, 08-19, 2019. https://niasra.uow. edu.au/workingpapers/UOW255140.html

> Michael Schweinberger, Pavel N. Krivitsky, and Carter T. Butts. A note on the role of projectivity in likelihood-based inference for random graph models. 2017. arXiv: 1707.00211

> Pavel N. Krivitsky. Modeling of Dynamic Networks based on Egocentric Data with Durational Information. Pennsylvania State University Department of Statistics Technical Report, TR12-01, 2012. http://stat.psu.edu/research/technicalreports/copy2_of_2012-technical-reports

> Pavel N. Krivitsky. Modeling Tie Duration in ERGM-Based Dynamic Network Models. Pennsylvania State University Department of Statistics Technical Report, TR12-02, 2012. http://stat.psu.edu/research/technical-reports/copy2_ of_2012-technical-reports

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Teaching

Courses

University of New South Wales

'20 ZZSC5855: Multivariate Analysis (Online)

'19-'20 MATH5855: Multivariate Analysis

'19-'21 DATA1001: Introduction to Data Science and Decisions

University of Wollongong MATH100: Introduction to Mathematics, STAT902: Advanced Data Analysis, STAT251: Fundamentals of Biostatistics, STAT903: Model-Based Survey Design and Analysis, INF0411/911: Data Mining, STAT131: Understanding Variation and Uncertainty, MATH131: Mathematics for Primary School Teachers

External Workshops and Tutorials

European Network for Social Network Analysis Annual Conference: EUSN

- '19 (with Martina Morris and Michał Bojanowski)
 - · Exponential-family Random Graph (ERG or p*) Modeling with statnet
 - · STERGM—Separable Temporal ERGMs for Modeling discrete relational dynamics with statnet
 - · Introduction to Egocentric Network Analysis with ERGMs in statnet

International Network for Social Network Analysis Annual Conference: Sunbelt

- '09–'19 (with Martina Morris, Mark S. Handcock, Steven M. Goodreau, Skye Bender-deMoll, Carter T. Butts, David R. Hunter, Michał Bojanowski, and others)
 - · Exponential-family Random Graph (ERG or p*) Modeling with statnet
 - · Extending ERGM Functionality within statnet: Building Custom User Terms
 - · STERGM—Separable Temporal ERGMs for Modeling discrete relational dynamics with statnet
 - · Latent variable network Modeling with latentnet
 - · Introduction to Egocentric Network Analysis with ERGMs in statnet
 - · Valued Network Modeling with statnet

StatsWeek@UOW

4-5/2/'16 Social Network Analysis with statnet with Martina Morris

Supervision

PhD

'16– **Victoria Leaver** (part-time) (co-supervisor, with Carole Birrell primary and Robert Clark)

'16–'20 Yue Ma (co-supervisor, with Yan-Xia Lin primary)

MS

'20– **Christopher Shaw** (panel member from '21, with Jonathan Russell primary and Michael Kasumovic)

'15–'18 **Georgina Davies** (part-time) (co-supervisor, with Noel Cressie primary)

Honours

- '21- **Marc Ishak** (primary)
- '19–'20 Zachary Edelstein (joint, with Catherine Greenhill)

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- '19 **Samuel Brown** (primary, with James Ng)
- '18 Aidan Mison (primary)
- '15 **Luke Mazur** (equal co-supervisor, with Thomas Suesse)

Grants

Successful

'21-'24 **Co-Principal Investigator** on US Army Research Office Award W911NF-21-1-0237

(75549-NS)

Title: Covert networks: How to learn as much as possible about the structure of a

network from sampled subnetworks
Principal Investigator: Michael Schweinberger

Co-Investigator: Johan Koskinen

Amount: 650,000 USD

'20-'21 Chief Investigator on UNSW Triple I Seed Grant

Title: Open source modelling tools to support policy decision-making throughout

the COVID-19 post-pandemic phase

Principal Investigator: Mark Hanly

Chief Investigators: Tim Churches, Jeffrey Post, Oisin Fitzgerald, Raina MacIntyre,

Louisa Jorm Amount: 50,000 AUD

'18-'22 Consultant/Co-Investigator on US National Institutes of Health Grant R01AI138783

Title: EpiModel 2.0: Integrated Network Models for HIV/STI Prevention Science

Principal Investigator: Samuel M. Jenness

Co-Investigators: Kimberly Workowski, Patrick Sullivan, Gregory Phillips II, Brian Mustanski, Michelle Birkett, Patrick Janulis, Martina Morris, Steven Goodreau,

Deven Hamilton, Karen Kuntz, and Eva Enns

Amount: 2,974,839 USD

'18 Awardee on University of Wollongong Faculty of Engineering and Information

Sciences Strategic Investment Grant

Amount: 10,000 AUD

'11-'16 Co-Investigator on US National Institutes of Health Grant R01HD68395

Title: Statistical Methods for Network Epidemiology

Principal Investigator: Martina Morris

Co-Investigators: Steven M. Goodreau, David R. Hunter, Carter T. Butts, and Skye

Bender-deMoll Amount: 3,040,740 USD

Pending

'21 Chief Investigator on ARC Discovery Project

Title: Missing not at random mechanisms in social network modelling

Chief Investigators: Johan Koskinen (primary)

Partner Investigators: Dr Lucia Falzon

Awards and Honours

'19 **Freeman Award** by *International Network for Social Network Analysis*

for significant contributions to the scientific study of social structure by a young investigator

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'19 **Richards Award** by *International Network for Social Network Analysis* for Development of Statnet Social Network Analysis Software (with Martina Morris, Mark Handcock, David Hunter, Steven Goodreau, and Skye Bender-deMoll)

Presentations

 \star — travel funded in whole or in part by organisers

Keynotes

6–11/7/'21 ★ TBD. Freeman Award Presentation at *International Network for Social Network Analysis Annual Conference: Sunbelt XLI*, Washington, DC, USA

Invited

- 21/5/'20 Statistical Models for Bipartite Contact Networks: Methods and Data. Invited presentation at *Isaac Newton Institute Programme on Mathematical and Statistical Challenges in Understanding the Dynamics of Infectious Disease Pandemics, virtual workshop on Models Old and New,* Cambridge, UK
- 7/9/'19 ★ Some Factoids about Relational Event Models and Dynamic Network Actor Models. Invited presentation at *EUSN Satellite Meeting on Relational Event Models at ETH Zurich*, Zurich, Switzerland
- 16/7/'19 ★ Inference for Network Models based on Egocentrically-Sampled Data. Invited presentation at *International Society for Clinical Biostatistics Annual Conference*, Leuven, Belgium
- 21/3/'19 * Inference for Network Models based on Egocentrically-Sampled Data. Invited presentation at *Joint Statistical Meeting of the German Statistical Societies*, Munich, Germany
- 5/1/'18 * Exponential-Family Random Graph Models for Multi-Layer Networks (with Christopher S. Marcum and Laura Koehly). Invited presentation at *Next Generation Network Analytics Meeting at University College London*, London, UK
- 17/12/'16 * Modeling and Simulation of Dynamic Networks using Egocentrically-Sampled Data (with Martina Morris and others). Invited presentation at *Isaac Newton Institute Programme Theoretical Foundations for Statistical Network Analysis, workshop on Dynamic Networks*, Cambridge, UK
 - 1/8/'11 A Separable Model for Dynamic Networks (with Mark S. Handcock). Invited paper at *American Statistical Association Joint Statistical Meeting*, Miami Beach, FL, USA
- 16/6/'11 Latent Space Cluster Models for Social Networks. Invited paper at *Classification Society Annual Meeting*, Pittsburgh, PA, USA
- 11/1/'11 A Separable Model for Dynamic Networks (with Mark S. Handcock). Invited presentation at *SAMSI Complex Networks Modeling Workshop*, Research Triangle Park, NC, USA

Refereed

- 3/12/'15 Inference and Simulation for Dynamic Network Models from Egocentrically Sampled Data. Contributed paper to MODSIM 2015: 21st International Congress on Modelling and Simulation, Gold Coast, QLD, Australia
- 7/12/'12 Fitting Dynamic Network Models to Static Network Data. Poster presentation at Neural Information Processing Systems Conference, Workshop on Algorithmic and Statistical Approaches for Large Social Networks, Lake Tahoe, NV, USA
- 10/6/'11 Network Neighbor Effects on Customer Churn in Cell Phone Networks (with Pedro M. A. Ferreira (presenter), Rahul Telang). Contributed paper to *Seventh Symposium on*

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- Statistical Challenges in Electronic Commerce Research (SCECR 2011), Rio de Janeiro, RJ, Brazil
- 12/12/'08 Adjusting for Network Size and Composition Effects in Exponential Family Random Graph Models (with Mark S. Handcock and Martina Morris). Poster presentation at Neural Information Processing Systems Conference, Workshop on Analyzing Graphs, Whistler, BC, Canada

Recent External Seminar

- 4/9/'19 ETH Zurich, Zurich, Switzerland
- 22/2/'19 The University of Sydney, Sydney, NSW, Australia
- 29/11/'18 Australian National University, Canberra, ACT, Australia
- 17/8/'18 The University of Sydney, Sydney, NSW, Australia
- 5/7/'18 ETH Zurich, Zurich, Switzerland
- 15/5/'18 Kirby Institute, University of New South Wales, Sydney, NSW, Australia
- 10/1/'18 University of Groningen, Groningen, Netherlands
- 8/1/'18 Hasselt University, Hasselt, Belgium

Other Recent

- 26/11/'20 It's Models all the Way Down: Operator Terms and other Building Blocks for Specifying Increasingly Complex Network Models. Presentation at *Australian Social Network Analysis Conference*, Online
- 26/10/'20 Self-Marking R Code in Moodle with CodeRunner. Presentation at *UNSW School of Mathematics and Statistics Learning and Teaching Seminar*, Online
- 16/7/'20 Impact of Egocentric Survey Design on Estimable Network Features (with Michał Bojanowski and Martina Morris). Presentation at *International Network for Social Network Analysis Annual Conference: Virtual Sunbelt 2020*, Online
- 12/12/'19 LyX and knitr: Using Literate Programming to Prepare Lecture Materials for Statistics. Presentation at 2019 Mathematical Educational Software Interest Group (MESIG) Meeting, Sydney, NSW, Australia
- 29/11/'19 Impact of Egocentric Survey Design on Estimable Network Features (with Michał Bojanowski and Martina Morris). Presentation at *Australian Social Network Analysis Conference: ASNAC 2019*, Adelaide, SA, Australia
 - 9/9/'19 Representativeness and Generalisability of Inference for Exponential-Family Random Graph Models from Samples of Networks (with Pietro Coletti and Neil Hens).

 Presentation at *European Conference on Social Networks: EUSN 2019*, Zurich, Switzerland
- 20/6/'19 Representativeness and Generalisability of Inference for Exponential-Family Random Graph Models from Samples of Networks (with Pietro Coletti and Neil Hens).

 Presentation at International Network for Social Network Analysis Annual Conference: Sunbelt XXXIX, Montreal, QC, Canada
- 28/11/'18 Representativeness and Generalisability of Inference for Exponential-Family Random Graph Models from Samples of Networks (with Pietro Coletti and Neil Hens).

 Presentation at *3rd Australian Social Network Analysis Conference*, Canberra, ACT, Australia
- 30/6/'18 Exponential-Family Random Graph Models for Many-Layer Networks (with Christopher S. Marcum and Laura Koehly). Presentation at *International Network for Social Network Analysis Annual Conference: Sunbelt XXXVIII*, Utrecht, Netherlands

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Administration

University of New South Wales

- '20- Coordinator of the UNSW School of Mathematics and Statistics Co-Op Program.
- '19- **Statistics Representative** on the UNSW School of Mathematics and Statistics Computing Committee.

University of Wollongong

- '16-'19 **Statistician** on the University of Wollongong Animal Ethics Committee.
 - '18 Member of the School of Mathematics and Applied Statistics Research Committee.

Member of the School of Mathematics and Applied Statistics Statistical Science Lecture Committee.

- '17 Academic Program Director of the Bachelor of Medical Mathematics Program.
- '16 Academic Program Director of the Masters in Statistics Program.

Chair of the School of Mathematics and Applied Statistics Awards Committee.

Member of the School of Mathematics and Applied Statistics Internationalisation Committee.

'14-'16 Member of the School of Mathematics and Applied Statistics Computing Committee.

Seminar Convener for the National Institute for Applied Statistics Research Australia.

Service

Software

Statnet Project **contributor ('07–) core developer ('08–)** an open-source project to develop a suite of R packages for analysis and statistical modelling of network data.

http://www.statnet.org

ergm **contributor ('07–) core developer ('08–) maintainer ('12–)** an R package in the statnet suite for fitting, visualization, and diagnosing of exponential random graph models (ERGMs).

http://cran.r-project.org/package=ergm

tergm **creator** ('12-) an R package in the statnet suite for fitting, visualization, and diagnosing of dynamic network models based on ERGMs.

http://cran.r-project.org/package=tergm

ergm.count **creator** ('12-) an R package in the statnet suite extending ergm to fit and simulate ERGMs for networks of counts.

http://cran.r-project.org/package=ergm.count

ergm.rank **creator** ('16-) an R package in the statnet suite extending ergm to fit and simulate ERGMs for networks of ranks.

http://cran.r-project.org/package=ergm.rank

ergm.ego **creator ('16-)** an R package in the statnet suite extending ergm to fit and simulate ERGMs for egocentrically sampled data.

http://cran.r-project.org/package=ergm.ego

latentnet **core developer, maintainer ('05–)** an R package in the statnet suite for fitting latent space and latent cluster models to binary and weighted networks.

http://cran.r-project.org/package=latentnet

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networkDynamic **contributor** ('12-) an R package in the statnet suite for storing and processing dynamic network data.

http://cran.r-project.org/package=networkDynamic

rle **creator** (**'20–)** an R package providing common functions for run-length encoded vectors.

http://cran.r-project.org/package=rle

egor **co-creator, contributor ('18–)** an R package for importing, analyzing and visualizing ego-centered network data.

http://cran.r-project.org/package=egor

Yet Another Bayes's Rule Applet **creator ('12-)** an interactive Java applet illustrating the Bayes's Rule. http://www.krivitsky.net/teaching/BayesRule.html

Organisational

- '21–'22 **Organising Committee** of the International Network for Social Network Analysis Sunbelt Conference 2022 (Cairns, QLD, Australia).
 - '20 **Chair** of the International Network for Social Network Analysis Freeman Award Committee.
 - **Program Committee** of the International Network for Social Network Analysis COVID-19 Satellite Meeting.
 - '19 **Chair** of the International Network for Social Network Analysis Best Student Paper Award Committee.
 - **Co-Organiser and Chair** of the International Network for Social Network Analysis Sunbelt Conference Session on Inference and Generalisability in Modelling Samples of Networks and Multi-Level Networks.
 - **Co-Organiser and Co-Chair** of the International Network for Social Network Analysis European Social Networks Conference (EUSN) Session on Inference and Generalisability in Modelling Samples of Networks and Multi-Level Networks.
 - '12 **Co-Organiser and Co-Chair** of the 2012 Neural Information Processing Systems Workshop on Algorithmic and Statistical Approaches for Large Social Networks.

Peer Review

- '18 for Computational Statistics, Annals of Applied Statistics, Computational Statistics and Data Analysis, Annals of Statistics, Electronic Journal of Statistics, Bernoulli, Statistical Science, Swiss National Science Foundation (Grant).
- '17 for Statistical Science, Journal of the American Statistical Association, Journal of the Royal Statistical Society Series B, Journal of Selected Topics in Signal Processing, Computational Statistics, Annals of Applied Statistics.
- '16 for Science, Journal of Statistical Software, Journal of the American Statistical Association, Journal of the Royal Statistical Society Series B.
- '15 for Journal of Statistical Software, Social Networks, Sociological Methodology, Annals of Applied Statistics, Computational Statistics and Data Analysis, Journal of the Royal Statistical Society Series B, Swiss National Science Foundation (Grant).
- '14 for Health Research Council of New Zealand (Grant), *Journal of Computational and Graphical Statistics, Journal of Statistical Software, Annals of Applied Statistics.*
- '08–'13 for Social Networks, Annals of Applied Statistics, Journal of the American Statistical Association, IMS Electronic Journal of Statistics, Journal of Mathematical Psychology, Science, Sociological Methodology, Annals of Statistics, Journal of Statistical Theory and Practice, Statistica Sinica, Journal of Computational and Graphical Statistics.

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Memberships and Certifications

Memberships International Network for Social Network Analysis (member since 2009)

 $\textbf{Australian Network for Social Network Analysis} \ (founding \ member \ since \ 2016)$

American Statistical Association (member since 2007; lapsed)

Certifications Society of Actuaries/Casualty Actuarial Society (SOA/CAS Level 1 in June 2002)

Other Information

Citizenship United States of America (naturalised in 2000)

 $Languages \>\>\> \pmb{Russian}\>\> (native\>\> speaker), \>\> \pmb{English}\>\> (native-level),$

French (some competence), Japanese (some competence)

Programming R, PYTHON, C, C++, JAVA, SQL (MySQL, PosgreSQL, and Oracle), S-PLUS, MATLAB

Software WinBUGS, JAGS, SAS, MINITAB, DataDesk, SPSS

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