

PAVEL N. KRIVITSKY
SENIOR LECTURER IN STATISTICS
SCHOOL OF MATHEMATICS AND STATISTICS
UNIVERSITY OF NEW SOUTH WALES
AUSTRALIA
p.krivitsky@unsw.edu.au
www.krivitsky.net/research

The Red Centre, Centre Wing
Room 1032
Kensington Campus
UNSW Sydney, NSW 2052
+61 (2) 9385 7022

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 (Associate Professor in US) in Statistics** at University of New South Wales School of Mathematics and Statistics, Sydney, NSW, Australia

7/'19-6/'20 **Lecturer (Assistant/Associate Professor in US) in Statistics** at University of New South Wales School of Mathematics and Statistics, Sydney, NSW, Australia

7/'13-7/'19 **Lecturer (Assistant/Associate Professor in US) 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
Topic: Modelling of social networks; statistical computing
Principal Investigator: David R. Hunter

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

Topic: Modelling of social networks, particularly dynamic networks and telecommunications networks; analysis of mobile phone network data

Principal Investigator: Pedro M. A. Ferreira

Publications

Under Review **Investigating Foreign Portfolio Investment Holdings: Gravity Model with Social Network Analysis** (Luke Mazur, Thomas Suesse, and Pavel N. Krivitsky). *Under revise and resubmit*, September 2015. <http://niasra.uow.edu.au/workingpapers/U0W205811.html>

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

Impact of Egocentric Survey Design on Estimable Network Features (Pavel N. Krivitsky, Michał Bojanowski, and Martina Morris). *Under revise and resubmit*, July 2019.

Exponential-Family Random Graph Models for Multi-Layer Networks (Pavel N. Krivitsky, Christopher S. Marcum, and Laura Koehly). *Revised and resubmitted*, August 2019. doi:10.31235/osf.io/dqe9b

Peer-Reviewed

Journal **Exponential-Family Models of Random Graphs: Inference in Finite-, Super-, and Infinite Population Scenarios** (Michael Schweinberger, Pavel N. Krivitsky, Carter T. Butts, and Jonathan Stewart). *Statistical Science*, To appear, October 2019. <https://arxiv.org/abs/1707.04800>

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

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

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

Sharing Social Network Data: Differentially Private Estimation of Exponential-Family Random Graph Models (Vishesh Karwa, Pavel

N. Krivitsky, and Aleksandra B. Slavković). *Journal of the Royal Statistical Society, Series C*, 66(3):481–500, 2017. doi:10.1111/rssc.12185

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

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

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

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

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

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

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

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

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

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

Reviewing the Methods of Estimating the Density Function Based on Masked Data (Yan-Xia Lin and Pavel N. Krivitsky). *Privacy in*

Statistical Databases: Lecture Notes in Computer Science, 11126:231–246, September 2018. doi:10.1007/978-3-319-99771-1_16

Differentially Private Exponential Random Graphs (Vishesh Karwa, Aleksandra Slavković, and Pavel N. Krivitsky). *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

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

Estimating the Integrated Likelihood via Posterior Simulation Using the Harmonic Mean Identity (Adrian E. Raftery, Michael A. Newton, Jaya M. Satagopan, and Pavel N. Krivitsky). *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>

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

A note on the role of projectivity in likelihood-based inference for random graph models (Michael Schweinberger, Pavel N. Krivitsky, and Carter T. Butts). July 2017. <https://arxiv.org/abs/1707.00211>

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

Modeling Tie Duration in ERGM-Based Dynamic Network Models (Pavel N. Krivitsky). *Pennsylvania State University Department of Statistics Technical Report*, TR12-02, April 2012. http://stat.psu.edu/research/technical-reports/copy2_of_2012-technical-reports

Teaching

Courses

University of New South Wales

'19 MATH5855: Multivariate Analysis

'19-'20 DATA1001: Introduction to Data Science and Decisions

University of Wollongong

- '19 MATH100: Introduction to Mathematics
- '14-'16, '18-'19 STAT 902: Advanced Data Analysis
- '13-'18 STAT 251: Fundamentals of Biostatistics
- '14,'17-'18 STAT 903: Model-Based Survey Design and Analysis
- '16 INFO 411/911: Data Mining
- '14-'15 STAT 131: Understanding Variation and Uncertainty
- '14 MATH 131: Mathematics for Primary School Teachers

External Workshops and Tutorials

European Network for Social Network Analysis Annual Conference: EUSN

- '19 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**
with Martina Morris and MichałBojanowski

International Network for Social Network Analysis Annual Conference: Sunbelt

- '09-'19 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**
with Martina Morris, Mark S. Handcock, Steven M. Goodreau, Skye Bender-deMoll, Carter T. Butts, David R. Hunter, MichałBojanowski, and others

StatsWeek@UOW

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

Supervision

PhD

- '16- **Yue Ma** (co-supervisor, with Yan-Xia Lin primary)
- '16- **Victoria Leaver** (part-time) (primary, with Robert Clark and Carole Birrell)

MS

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

Honours

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

Grants

NIH: US National Institutes of Health

EIS: University of Wollongong Faculty of Engineering and Information Sciences

Successful

- '18–'22 **Consultant/Co-Investigator** on NIH 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 EIS Strategic Investment Grant
 Amount: 10,000 AUD
- '11–'16 **Co-Investigator** on NIH 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

- '19 **Co-Principal Investigator** on US Army Research Office Grant
 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

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
- '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

* — *travel funded in whole or in part by organisers*

Keynotes

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

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 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
- 1/11/'17 NIASRA Fellows Meeting, Goulburn, NSW, Australia
- 29/3/'17 University of Washington, Seattle, Seattle, WA, USA
- 2/2/'17 University of California, Irvine, Irvine, CA, USA
- 9/6/'16 Australian National University, Canberra, ACT, Australia

Other Recent

- 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
- 29/11/'17 **Exponential-Family Random Graph Models for Multilayer Networks** with Christopher S. Marcum and Laura Koehly. Presentation at *2nd Australian Social Network Analysis Conference*, Sydney, NSW, Australia
- 17/11/'16 **Estimation of Exponential-Family Random Graph Mixed Models with Dyadic Dependence: Combining MCMC with Analytic Approximation.** Presentation at *1st Annual Australian Social Network Analysis Conference*, Hawthorn, VA, Australia
- 8/4/'16 **Estimation of Exponential-Family Random Graph Mixed Models With Dyadic Dependence.** Presentation at *International Network for Social Network Analysis Annual Conference: Sunbelt XXXVI*, Newport Beach, CA, USA

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 **an open-source project to develop a suite of R packages for analysis and statistical Modeling of network data**
<http://www.statnet.org>
Contributor since 2007; Core developer since 2008
- ergm **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>
Contributor since 2007; Core developer since 2008; Maintainer since 2012
- tergm **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>
Creator and maintainer since 2012
- ergm.count **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>
Creator and maintainer since 2012
- ergm.rank **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>
Creator and maintainer since 2016

ergm.ego 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>
Creator and maintainer since 2016

latentnet 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>
Core developer and maintainer since 2005

networkDynamic an R package in the **statnet** suite for storing and processing dynamic network data
<http://cran.r-project.org/package=networkDynamic>
Contributor since 2012

Yet Another Bayes's Rule Applet an interactive Java applet illustrating the Bayes's Rule
<http://www.krivitsky.net/teaching/BayesRule.html>
Creator and maintainer since 2012

Organisational

'20 **Chair** of the International Network for Social Network Analysis Freeman Award Committee.

'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*.

Memberships and Certifications

- Memberships **International Network for Social Network Analysis**
Member since February 2009
- Australian Network for Social Network Analysis**
Founding member since November 2016
- American Statistical Association**
Member since July 2007
- Certifications **Society of Actuaries/Casualty Actuarial Society**
Passed Level 1 Exam in June 2002

Other Information

- Citizenship **United States of America**
Naturalised in 2000
- Languages **Russian** (native speaker)
English (native-level)
French (some competence)
Japanese (some competence)
- Programming R, PYTHON, C, C++, JAVA, SQL (MySQL, PostgreSQL, and Oracle), S-PLUS, MATLAB
- Software *WinBUGS*, *JAGS*, *SAS*, *MINITAB*, *DataDesk*, *SPSS*