

# Anton H. Westveld

Canberra, ACT, AUS & Richmond, VA, USA

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## Affiliation

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<b>Senior Lecturer (Level C) in Statistics (Australian System)</b> Research School of Finance, Actuarial Studies and Statistics (RSFAS) College of Business and Economics, Australian National University Canberra, ACT, Australia	Jan 2017 - Present
<ul style="list-style-type: none"><li>• Convenor of the <a href="#">ASA DataFest</a> at ANU [2021 - Present]</li><li>• CBE representative on the CHMS Education Committee [2020 - Present]</li><li>• RSFAS Honours Program Convenor [2015 - 2019]</li></ul>	

<b>Affiliate Associate Professor</b> Department of Statistical Sciences and Operations Research Virginia Commonwealth University Richmond, Virginia, USA	Aug 2023 - Present
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## Education

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**Ph.D. in Statistics**, University of Washington  
Seattle, WA, USA

**M.A. in Applied Statistics & Applied Economics**, University of Michigan  
Ann Arbor, MI, USA

**B.A. in Economics & Political Science**, University of Michigan  
Ann Arbor, MI, USA

## Work Experience

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<b>Associate</b> Statistics Laboratory @ the Bio5 Institute and the Statistics Graduate Inter-Disciplinary Program (GIDP) University of Arizona, Tucson, AZ, USA	Jan 2013 - Dec 2017
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<b>Lecturer (Level B) in Statistics</b> Research School of Finance, Actuarial Studies and Statistics College of Business and Economics, Australian National University Canberra, ACT, AUS	Jul 2014 - Dec 2016
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<b>Assistant Professor of Statistics</b> Faculty of ESTEM University of Canberra Canberra, ACT, AUS	Jan 2013 - May 2014
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<b>Statistician and Regular Statistics Faculty</b> Statistics Laboratory @ the Bio5 Institute and the Statistics Graduate Inter-Disciplinary Program (GIDP) University of Arizona, Tucson, AZ, USA	Sep 2011 - Nov 2012
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<b>Assistant Professor of Statistics</b> Department of Mathematical Sciences University of Nevada Las Vegas, NV, USA	Jul 2007 - Aug 2011
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Last updated: 2025-12-04

<b>Post Doctoral Fellow</b> Center for Empirical Research in the Law Washington University St. Louis, MO, USA	Jan - Jul 2007
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## **Visiting Positions**

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<b>Visiting Faculty</b> Department of Statistics & Data Sciences University of Texas Austin, TX, USA	Aug 2019 - Feb 2020
<b>Visiting Faculty</b> Center for Statistics and the Social Sciences University of Washington Seattle, WA, USA	Jul - Aug 2019
<b>Visiting Faculty</b> Department of Statistics & Data Sciences University of Texas Austin, TX, USA	Dec 2017
<b>Visiting Researcher</b> Division of Mathematics, Informatics, and Statistics CSIRO Canberra, ACT, AUS	Mar 2010
<b>Visiting Researcher</b> Division of Computational Biology Fred Hutchinson Cancer Research Center Seattle, WA, USA	Jun - Jul 2008

## **Continuing Education**

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<b>Operational AI: Balancing National Security &amp; Ethical Governance</b> Whole of Government Center of Excellence and the Law School William & Mary Williamsburg, VA, USA	Feb - Mar 2025
<b>Modern Leadership: Reflections and Tools for the Values-Based Leader</b> William & Mary Washington Center Washington, DC, USA	May 2021
<b>Preparing Statisticians for Leadership: How to See the Big Picture and Have More Influence</b> JSM Vancouver, BC, CAN	Jul 2018

## **Scientific Publications**

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Marin#, S., B. Loong, and <b>A.H. Westveld</b> . “Adaptive Shrinkage with a Nonparametric Bayesian Lasso”. Preprint: <a href="https://arxiv.org/abs/2411.08262">arXiv:2411.08262</a> , <i>Journal of Computational and Graphical Statistics</i> (2025). <a href="https://doi.org/10.1080/10618600.2025.2572327">https://doi.org/10.1080/10618600.2025.2572327</a> .
Marin#, S., B. Loong, and <b>A.H. Westveld</b> . “BOB: Bayesian Optimized Bootstrap with Applications to Gaussian Mixture Models”. Preprint: <a href="https://arxiv.org/abs/2311.03644">arXiv:2311.03644</a> , <i>Statistics and Computing</i> (2025). <a href="https://doi.org/10.1007/s11222-025-10763-y">https://doi.org/10.1007/s11222-025-10763-y</a> .

Wang<sup>#</sup>, Jiali, **A.H. Westveld**, A.H. Welsh, M. Parker, and B. Loong. “Analysis of Survey on Menstrual Disorder Among Teenagers Using Gaussian Copula Model with Graphical Lasso Prior”. *PLOS ONE* 3 (2021): 1–22. <https://doi.org/10.1371/journal.pone.0248340>.

Lundy, M.B., C.A. Standley, and **A.H. Westveld**. “Curricular Reform in Two Medical School Tracks and the Impact on USMLE Scores”. *Medical Science Educator* 27, no. 2 (2017): 201–207. <https://doi.org/10.1007/s40670-016-0368-y>.

Chiu, G.S., and **A.H. Westveld**. “A Statistical Social Network Model for Consumption Data in Trophic Food Webs”. Preprint: <https://arxiv.org/abs/1006.4432>, *Statistical Methodology (Special issue on Modern Statistical Methods in Ecology)* 17 (2014): 139–160. <https://doi.org/10.1016/j.stamet.2013.09.001>.

Hurwitz, B.L., **A.H. Westveld**, J.R. Brum, and M.B. Sullivan. “Modeling Ecological Drivers in Marine Viral Communities Using Comparative Metagenomics and Network Analyses”. *Proceedings of the National Academy of Sciences of the USA* 111, no. 29 (2014): 10714–10719. <https://doi.org/10.1073/pnas.1319778111>.

**A.H. Westveld** and P.D. Hoff. “Modeling of the Learning Process in Centipede Games”. Preprint: [arXiv:1003.2253](https://arxiv.org/abs/1003.2253), *Stat* 2, no. 1 (2013): 242–254. <https://doi.org/10.1002/sta4.32>.

Taylor, A., et al. “The Use of Metformin is Associated with Decreased Lumbar Radiculopathy Pain”. *Journal of Pain Research* 2013, no. 6 (2013): 755–763. <https://doi.org/10.2147/JPR.S52205>.

**A.H. Westveld** and P.D. Hoff. “A Mixed Effects Model for Longitudinal Relational and Network Data, with Applications to International Trade and Conflict”. Preprint: [arXiv:1009.1436](https://arxiv.org/abs/1009.1436), *Annals of Applied Statistics* 5, no. 2A (2011): 843–872. <https://doi.org/10.1214/10-AOAS403>.

Chiu, G.S., and **A.H. Westveld**. “A Unifying Approach for Food Webs, Phylogeny, Social Networks, and Statistics”. *Proceedings of the National Academy of Sciences of the USA* 108, no. 38 (2011): 15881–15886. <https://doi.org/10.1073/pnas.1015359108>.

Chiu, Grace S., Peter Guttorp, **Westveld, Anton H.**, Shahedul A. Khan, and Jun Liang. “Latent health factor index: a statistical modeling approach for ecological health assessment”. *Environmetrics* 22, no. 3 (2011): 243–255. <https://doi.org/https://doi.org/10.1002/env.1055>.

Gneiting, T., A.E. Raftery, **A.H. Westveld**, and T. Goldman. “Calibrated Probabilistic Forecasting Using Ensemble Model Output Statistics and Minimum CRPS Estimation”. *Monthly Weather Review* 133, no. 3 (2005): 1098–1118. <https://doi.org/10.1175/MWR2904.1>.

# denotes a student that I supervise in some way.

## Working Papers

Chiu, Grace S., et al. “Model-based Calibration of Gear-Specific Fish Abundance Survey Data as a Change-of-Support Problem”. *arXiv Statistics Methodology* (2025). Submitted, <https://doi.org/10.48550/arXiv.2505.05767>.

Wolff<sup>#</sup>, Malcolm, Adrian Dobra, **Anton H. Westveld**, and Grace S. Chiu. “Modeling Human Spatial Mobility Patterns with the Lévy Flight Cluster Model”. *arXiv Statistics Methodology* (2025). Under Revision, <https://doi.org/10.48550/arXiv.2509.00298>.

Kuh<sup>#</sup>, F.S., G.S. Chiu, and **A.H. Westveld**. “Latent Causal Socioeconomic Health Index”. *arXiv Statistics Methodology* (2023). Under Revision, <https://arxiv.org/abs/2009.12217>.

Kuh#, F.S., G.S. Chiu, and **A.H. Westveld**. “Modeling National Latent Socioeconomic Health and Examination of Policy Effects via Causal Inference”. *arXiv Statistics Applications* (2019).  
<https://arxiv.org/abs/arXiv:1911.00512>.

Wang#, J., **A.H. Westveld**, B. Loong, and A.H. Welsh. “An Imputation model by Dirichlet Process Mixture of Elliptical Copulas for Data of Mixed Type”. *arXiv Statistics Methodology* (2019).  
<https://arxiv.org/abs/1910.05473>.

Wang#, J., **A.H. Westveld**, B. Loong, and A.H. Welsh. “A Copula-based Imputation Model for Missing Data of Mixed Type in Multilevel Data Sets”. *arXiv Statistics Methodology* (2017).  
<https://arxiv.org/abs/1702.08148>.

## Conference Papers

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C.H. Chien#, A. Haller, and **A.H. Westveld**. “Firm Business Networks”. *International Workshops on Contextualized Knowledge Graphs, and Semantic Statistics co-located with 17th International Semantic Web Conference* (2018). <http://ceur-ws.org/Vol-2317/>.

Chiu, G.S., and **A.H. Westveld**. “Physical Statistics or Statistical Physics? A Brief Overview of Bayesian Melding”. ISBN: 978-0-9872143-3-1, *In Piantadosi, J., Anderssen, R.S. and Boland J. (eds) MODSIM2013, 20th International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand* (2013): 2506–2512.  
<https://www.mssanz.org.au/modsim2013/A7/chiu.pdf>.

Jensen, N.M., A.D. Martin, and **A.H. Westveld**. “Foreign Direct Investment: A Longitudinal Social Network Approach”. *Political Networks Conference* (2011).  
[http://openiuc.lib.siu.edu/pnconfs\\_2010/51/](http://openiuc.lib.siu.edu/pnconfs_2010/51/).

Myroshnychenko#, M.V., and **A.H. Westveld**. “Analysis of Morris Water Maze Data with Bayesian Statistical Methods”. Poster associated with the paper [joint with Dr. Jefferson Kinney]. *UNLV McNair Scholars Institute Annual Report 2011-2012, University of Nevada Las Vegas* (2011): 65–71. [https://digitalscholarship.unlv.edu/cgi/viewcontent.cgi?article=1002&context=mcnair\\_journal](https://digitalscholarship.unlv.edu/cgi/viewcontent.cgi?article=1002&context=mcnair_journal).

Quinn, K.M., and **A.H. Westveld**. “Bayesian Inference for Semi-parametric Quantal Response Equilibrium Models”. *JSM Proceedings, Section on Bayesian Statistical Science* (2009). <https://github.com/awest3/awest3.github.io/blob/main/docs/extrFiles/SpqrJsmProc09.pdf>.

**A.H. Westveld** and P.D. Hoff. “Statistical Methodology for Longitudinal Social Network Data”. *APSA Proceedings* (2005). <https://convention2.allacademic.com/one/apsa/apsa05/>.

Letnes, B., and **A.H. Westveld**. “Transnational Corporations, Economic Development and Human Rights: On the Importance of Assets and Institutions”. *APSA Proceedings* (2005).  
<https://convention2.allacademic.com/one/apsa/apsa05/>.

## Technical & Client Reports

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Chien#, Chien-Hung, A.H. Welsh, and **A.H. Westveld**. “Australian Business Networks”. *ABS Research Paper* (2019). <https://www.abs.gov.au/ausstats/abs@.nsf/mf/1351.0.55.063>.

Chiu, G.S., S. Treier, A.H. Westveld, and N. Erskine. “Progress Report on ‘Evidence-based inference for network relations using latent space network modelling: Case studies from the Australian political landscape’. *Report prepared for ANU College of Arts and Social Sciences* (2019).

Macatangay, K., **A.H. Westveld**, and B. Kunkel. "Intervening for Success". *Report prepared for Clark County District Attorney, Family Support Division and the U.S. Department of Health and Human Services* (2012).

## **Competitive Grants & Other Funding**

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<b>Consulting</b> , at <a href="#">Virginia Institute of Marine Science</a> (William & Mary).	2022
• Statistical Consultant (Bayesian methodology) - <a href="#">U.S. Greater Amberjack Research Program</a> .	
<b>Instructor</b> at the <a href="#">Australian Institute of Health and Welfare</a> .	2019
• One day statistics and data science with R workshop.	
<b>International Collaborator</b> of the <a href="#">SFI Centre for Research Training</a> . <a href="#">Foundations of Data Science</a>	2019
<b>Co-PI</b> of ANU RSFAS & RSSS cross-college grant.	2018
• Evidence-based inference for network relations using latent space network modelling: Case studies from the Australian political landscape.	
• In collaboration with the other PIs: Dr. Shawn Treier and Dr. Grace Chiu.	
<b>Co-PI</b> for sustainable farming practices from the Ian Potter Foundation.	2018
• In collaboration with Professor David Lindenmayer (PI) et al., including Associate Professor Emma Schultz, Dr. Grace Chiu (CBE Co-PIs).	
<b>Co-PI</b> for sustainable farming practices pilot project - 1 year grant.	2016
• In collaboration with Professor David Lindenmayer (PI) et al., including Associate Professor Emma Schultz, Dr. Grace Chiu (CBE Co-PIs).	
<b>Co-PI</b> for IBISWorld philanthropic grant.	2016-2018
• IBISWorld, Melbourne, Australia - 3 year grant; Part of this grant was used to create the IBISWorld Ph.D. Scholarship awarded to Ms. F. Swen Kuh, who is jointly advised by myself and Dr. Grace Chiu (PI).	
<b>Sub-grant PI</b> for Clark County District Attorney's Office Family Support Division, Nevada, USA.	2009-2012
• Child Support Policies via Randomized Experiments (Evidenced Based Policy) funded from the US Department of Health & Human Services.	
<b>Sub-grant PI</b> of NSERC Discovery Grant.	2009
• Statistical modelling of health indices for aquatic ecosystems.	
<b>PI</b> of the New Researchers' US Federal Stimulus Award.	2008
<b>PI</b> of the Nevada System of Higher Education, NSF EPSCoR RING TRUE.	2007 - 2008

## **Courses Taught, Convened<sup>+</sup>, & Developed\***

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<b>Statistical Learning</b> <sup>++*</sup>	2015 - 2017, 2021 - Present
ANU STAT 3040/4040/7040 [undergraduate, honours, graduate - some years graduate and undergraduate were not jointly taught]	
<b>Statistical Inference</b> <sup>+</sup>	2014 - 2020, 2024 - Present
ANU STAT3013/4027/8027 [undergraduate, honours, graduate]	
<b>Statistics for Data Analysis A &amp; B</b> <sup>++*</sup>	2021
ANU Micro-credential Course [professional]	

<b>Regression Modelling + Introduction to GLMs<sup>+</sup></b> ANU STAT 2008/2014/6014 [undergraduate and graduate]	2020
<b>Regression Modelling<sup>+</sup></b> ANU STAT 2008/6038 [undergraduate and graduate]	2018 [944 students enrolled]
<b>Managing the Research Process<sup>+</sup>*</b> ANU STAT 4010 [honours]	2016 - 2018
<b>Introduction to Mathematical Statistics<sup>+</sup></b> ANU STAT2001/6039 [undergraduate and graduate]	2014
<b>Econometrics<sup>+</sup></b> UC 6541/6551 [undergraduate and graduate]	2014
<b>Problem Evaluation and Resolution<sup>+</sup></b> UC 8730 [undergraduate]	2013 - 2014
<b>Introduction to Business Statistics<sup>+</sup></b> UC 5123/6275 [undergraduate and graduate]	2013
Aided in developing a course on <b>network data*</b> for the School of Information: Science, Technology, and Arts (SISTA) UA [undergraduate]	2012
<b>Applied Statistics for the Biological Sciences<sup>+</sup></b> UNLV STAT 391 [undergraduate]	2008 - 2010
<b>Experimental Design and Analysis<sup>+</sup></b> UNLV STAT 713 [graduate]	2008 - 2010
<b>Bayesian Data Analysis<sup>+</sup>*</b> UNLV STAT 753 [graduate]	2009
Independent study for <b>Bayesian Data Analysis<sup>+</sup>*</b> UNLV STAT 753 [graduate]	2008 - 2011
<b>Regression Analysis II<sup>**</sup> (GLMs, LMMs, GLMMs)</b> UNLV STAT 762 [graduate]	2010 - 2011
<b>Statistical Decision Theory<sup>+</sup></b> UNLV Stat 765 [graduate]	2008
<b>Multivariate Analysis<sup>+</sup></b> UNLV Stat 764 [graduate]	2007

Note: Australian National University (ANU), University of Arizona (UA), University of Canberra (UC), University of Nevada, Las Vegas (UNLV)

### Research Advising and Mentoring

<b>Santiago Marin Ardila</b> , Ph.D. student in Statistics, RSFAS, ANU.	2023 - Present
• Project: Bayesian Posterior Approximation and Non-Parametrics	Co-Pri Adv
<b>Chris Malone</b> , Master's in Statistics, RSAF, ANU.	2021 - 2022
• Project: Bayesian Inference of Eradication of Incipient Tephritis Fruit Fly	Co-Pri Adv
• LinkedIn: <a href="https://www.linkedin.com/in/cm-ds/">https://www.linkedin.com/in/cm-ds/</a>	
<b>Malcolm Wolff</b> , Ph.D. student in Statistics, Univ. of Washington, Seattle.	2021 - Present
• Project: Statistical Modelling of Human Movement, Social Activity Spaces,	Co-Adv

and Networks		
• LinkedIn: <a href="https://www.linkedin.com/in/malcolm-wolff-82b1586a/">https://www.linkedin.com/in/malcolm-wolff-82b1586a/</a>		
<b>Fui Swen Kuh</b> , IBISWorld Ph.D. Scholar in Statistics, RSFAS, ANU.	2016 - 2022	Co-Pri Adv
• Project: A Holistic Bayesian Framework for Modelling Latent Socio-Economic Health		
• Winner of the Inaugural Poster competition of the ASA Social Statistics Section - JSM 2018		
• LinkedIn: <a href="https://www.linkedin.com/in/swenkuh/">https://www.linkedin.com/in/swenkuh/</a>		
<b>Joseph Chien</b> , Ph.D in Statistics, Mathematical Sciences Institute, ANU.	2016 - 2021	Assoc Adv
• Project: Using Administrative Data to Gain Insights into Microdrivers of Productivity		
• LinkedIn: <a href="https://www.linkedin.com/in/joseph-chien-hung-chien-6a5184a9/">https://www.linkedin.com/in/joseph-chien-hung-chien-6a5184a9/</a>		
<b>Jiali Wang</b> , Ph.D in Statistics, RSFAS, ANU.	2015 - 2018	Co-Pri Adv
• Project: Recent Developments of Copula-Based Models to Handle Missing Data of Mixed-Type in Multivariate Analysis		
• Recipient of the 2018 Dennis Trewin Prize presented by the Statistical Society of Australia - Canberra Branch.		
• LinkedIn: <a href="https://www.linkedin.com/in/jiali-wang-89244513b/">https://www.linkedin.com/in/jiali-wang-89244513b/</a>		
<b>Mark Dawkins</b> , Honours in Statistics (H1), RSFAS, ANU.	2017	Co-Pri Adv
• Project: Melded Bayesian Inference for Stochastic Theoretical Models with Applications in Agent Based Modelling		
• LinkedIn: <a href="https://www.linkedin.com/in/mark-dawkins-479762122/">https://www.linkedin.com/in/mark-dawkins-479762122/</a>		
<b>Jaron Lee</b> , Honours in Statistics (H1), RSFAS, ANU.	2016	Pri Adv
• Project: A Variational Bayes Approach to Clustered Latent Preference Models for Directed Network Data		
• Recipient of an ANU University Medal		
• LinkedIn: <a href="https://www.linkedin.com/in/jaron-jr-lee/">https://www.linkedin.com/in/jaron-jr-lee/</a>		
<b>Fui Swen Kuh</b> , ANU Summer Research Scholar from the Department of Statistics, University of Auckland.	2015	Pri Co-Adv
• Project: Social Network Analysis on Food Web and Dispute Data		
• LinkedIn: <a href="https://www.linkedin.com/in/swenkuh/">https://www.linkedin.com/in/swenkuh/</a>		
<b>Seoyoon Cho</b> , CSIRO Industrial Trainee from the Department of Statistics, Korea University.	2014	Co-Adv
• Project: Modeling Network Data Using PyStan		
• Received Ph.D. in Biostatistics from University of North Carolina		
<b>Hyangki Lee</b> , CSIRO Industrial Trainee from the Department of Statistics, Korea University.	2014	Co-Adv
• Project: Modeling Network Data Using PyStan		
<b>Yaroslav Mukhin</b> , M.S. in Statistics, University of Nevada, Las Vegas.	2010 - 2012	Mentor

- Project: Inference for the Solow Growth Model: A Bayesian Melding Approach
- Received Ph.D. in Economics from Massachusetts Institute of Technology
- LinkedIn: <https://www.linkedin.com/in/yaroslav-mukhin-6b7890229/>

**Maxym Myroshnychenko**, NSF Biomathematics Scholar and  
UNLV McNair Scholar, University of Nevada, Las Vegas. 2010 - 2012  
Pri Adv

- Project: [Analysis of Morris Water Maze Data with Bayesian Statistical Methods](#)
- Received Ph.D. in Neuroscience from Indiana University Bloomington
- LinkedIn: <https://www.linkedin.com/in/maxym-myroshnychenko-b79b2b51/>

## Internship (Consulting) Advising & Mentoring

<b>Rory Williams</b> , ANU College of Business and Economics Internship Program.	2021
• Joint internship through Australian Department of Social Services	Pri Adv
<b>James Kondilios</b> , ANU College of Science Internship Program.	2019
• Joint internship through Airservices Australia	Pri Adv
<b>Jizhi Li</b> , ANU College of Science Internship Program.	2017
• Joint internship through the National Disability Insurance Agency, Australia	Pri Adv
<b>Yiran Yao</b> , ANU College of Science Internship Program.	2017
• Joint internship through the National Disability Insurance Agency, Australia	Pri Adv

## Selected Professional Activities & Awards

<b>Associate Editor</b> for the Journal of the American Statistical Association.	2019 - Present
<b>Associate Editor</b> for the quarterly bulletin of the International Society for Bayesian Analysis.	2016 - Present
<b>Instructor</b> for the statistics/data science workshop for the National Youth Science Foundation of Australia.	2019
<b>Best Poster Award.</b> Young Statisticians' Meeting (satellite meeting of the ISI), Dublin, IRL. 2011 • Title: Dirichlet Processes for Quantal Response Equilibrium Models - Examination of Pegged Exchange Rate Policies	2011
<b>Best Poster Award.</b> Political Networks Conference, Cambridge, MA, USA.	2011
• Title: A Bayesian Mixed Effects Model for Longitudinal Social Network Data	
<b>Student Paper Award.</b> Joint Statistical Meeting, Salt Lake City, UT, USA. ASA Section on Bayesian Statistical Science	2007
• Title: A Bayesian Mixed Effects Model for Longitudinal Social Network Data	

## Recent Seminars

<b>Invited.</b> Professor Adrian Raftery's <a href="#">ABCDE Conference</a> , University of Washington, Seattle, WA, USA.	2024
• Modelling National Latent Socioeconomic Health and Examination of Policy Effects	
<b>Invited.</b> Virginia Chapter of the ASA Conference, Charlottesville, VA, USA.	2024
• Bayesian Optimized Bootstrap (BOB) for Uncertainty Quantification in Gaussian Mixture Models	
<b>Invited.</b> The International Environmetrics Society, Adelaide, AUS.	2024

- A Bayesian Melding Approach for Stochastic Agent-Based Models
- Invited.** Virginia State University, Petersburg, VA, USA. 2023
- A Bayesian Melding Approach for Stochastic Agent-Based Models
- Invited.** Virginia Commonwealth University, Richmond, VA, USA. 2023
- A Bayesian Melding Approach for Stochastic Agent-Based Models

### **Professional Societies**

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<b>American Statistical Association</b>	2002 - Present
<b>American Political Science Association</b>	2002 - Present
<b>Statistical Society of Australia</b>	2010 - Present
<b>International Society for Bayesian Analysis</b>	2017 - Present