

JAMES FOULDS

Curriculum Vitae

Department of Information Systems
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EDUCATION

- 2014 **Doctor of Philosophy**, *University of California, Irvine*, Computer Science.
- 2008 **Master of Science (with First Class Honours)**, *University of Waikato*, Hamilton, New Zealand, Computer Science.
- 2006 **Bachelor of Computing and Mathematical Sciences (with First Class Honours)**, *University of Waikato*, Hamilton, New Zealand, Major in Artificial Intelligence.
GPA: 8.92/9.0 (A+ average)

Research Statement

My research interests are broadly in the area of **socially conscious artificial intelligence and machine learning**. My work aims to improve AI's role in society regarding **fairness** and **privacy**, and to promote the practice of **computational social science**, using **probabilistic models** and **Bayesian inference**.

Experience in Higher Education

- Aug 2017 – **Assistant Professor**, *University of Maryland, Baltimore County*, Baltimore, MD.
present
- Sept 2015 – **Postdoctoral Scholar**, *UC San Diego*, California, USA.
Aug 2017 UCSD ITA data science postdoctoral fellowship (an independent postdoc position).
Privacy-preserving latent variable modeling. Primary collaborator: Professor Kamalika Chaudhuri
- 2016 – 2017 **Lecturer**, *University of California, San Diego*, La Jolla, CA.
CSE 291-D: Latent Variable Modeling, Spring 2016 and Spring 2017.
- July 2014 – **Postdoctoral Scholar**, *UC Santa Cruz*, California, USA.
July 2015 Latent variable modeling with probabilistic soft logic.
Mentoring and advising seven graduate students. Supervisor: Professor Lise Getoor.
- Sept 2008 – **Research Assistant**, *UC Irvine*, California, USA.
June 2014 Probabilistic modeling of social networks and text. Supervisor: Professor Padhraic Smyth.
- Apr – Aug **Research Assistant**, *University of Waikato*, Hamilton, New Zealand.
2008 Multi-instance learning. Supervisor: Dr. Eibe Frank.
2006 **Research Assistant**, *University of Waikato*, Hamilton, New Zealand.
Text mining. Supervisor: Dr. Eibe Frank.
- 2005–2007 **Teaching Assistant**, *University of Waikato*, Hamilton, New Zealand.
Logic and Computation, Critical Reasoning, Introduction to Logic, Logic and Programming, Introduction to Computer Science 1 & 2.
- 2003–2005 **Research Assistant**, *University of Waikato*, Hamilton, New Zealand.
Cognitive robot mapping. Supervisor: Dr. Margaret Jefferies.

Experience in Other than Higher Education

- June – Sept **Research Intern**, *Yahoo Labs*, Sunnyvale, California, USA.
2013 Diverse personalized recommendation models. Supervisor: Dr. Dilan Görür.
- 2006-2007 **Software Engineer, WEKA**, *University of Waikato*, Hamilton, New Zealand.
Waikato Environment for Knowledge Analysis (WEKA) Boundary Visualization Tool for visualizing classifier decision boundaries.
- 2006-2007 **Sole Developer/Designer**, *University of Waikato*, Hamilton, New Zealand.
I developed an open-source Turing machine simulator for teaching purposes, for the University of Waikato, New Zealand. The source code is publicly available at <http://sourceforge.net/projects/tuataratmsim/>.

Honors Received

- 2016 **Southern California Machine Learning Symposium**, Best presentation, runner-up.
- 2008 **UC Irvine ICS Dean's Fellowship**, \$18,000 USD, covered my 1st year tuition fees.
- 2007 **University of Waikato Masters Research Scholarship**, \$12,000 NZD.
- 2007 **University of Waikato SCMS Scholarship**, \$3000 NZD.
- 2006 **Ramanujan Centenary Prize**, *University of Waikato School of Computing and Mathematical Sciences (SCMS)*, for best overall performance in the BCMS degree.
- 2006 **Best Honours Project Award**, *University of Waikato Department of Computer Science*, for best Honours research project.
- 2006 **Prior Society Prize in Philosophy**, Runner up, highly commended.
- 2006 **New Zealand Computer Society Level 3 Tertiary Scholarship**, \$2500 NZD.
- 2006 **University of Waikato SCMS Honours Study Award**, \$3000 NZD.
- 2005 **2nd in New Zealand/10th in Australasia**, *ACM South Pacific Programming Contest*.
- 2002 **University of Waikato Department of Computer Science Entrance Scholarship**, covered my 1st year tuition fees.

Courses Taught

- 2019 **Data Mining Techniques and Applications (UMBC, Fall, ongoing, undergrad)**.
- 2019 **Data Mining (UMBC, Fall, ongoing)**.
- 2019 **Data Mining (UMBC, Spring)**.
- 2018 **Probabilistic Machine Learning (UMBC, Fall)**.
- 2018 **Data Mining (UMBC, Spring)**.
- 2017 **Data Mining (UMBC, Fall)**.
- 2017 **Latent Variable Models (UCSD, Spring)**.
- 2016 **Latent Variable Models (UCSD, Spring)**.

Professional Development

- 2019 **Active Learning and Inquiry Teaching (ALIT) Certificate**, *University of Maryland, Baltimore County*, Baltimore, MD.
A two-year program for faculty who are interested in incorporating evidence-based teaching methods into their classes.
- 2018 **New Computing Faculty Teaching Workshop**, *University of California, San Diego*, La Jolla, CA.
The goal of the workshop is to help new computing faculty to be better and more efficient teachers. The workshops were described in Communications of the ACM in the May 2017 issue.

2016 **CIRTL Associate**, *University of California, San Diego*, La Jolla, CA.
Center for the Integration of Research, Teaching and Learning (CIRTL) Associate level of achievement awarded after completing *The College Classroom* pedagogy course.

PHD STUDENTS

Current Advisees.

Kamrun Naher Keya (Spring 2018 – present)

Rashidul Islam (Spring 2018 – present)

Mahbub Rahman (Summer 2019 – present)

Masnoon Nafees (Fall 2019 – present)

Current Co-Advisees.

Jack Shan (Spring 2019 – present. Primarily advised by Shimei Pan, now at Temple University)

Ziqian Zeng (Fall 2019 – present. Visiting student in Shimei Pan's lab)

Ph.D. Committee Member.

Işıl Doğa Yakut Kılıç, proposal defense 2.7.2020

Pei Guo, proposal defense 12.16.2019

Arpita Roy, proposal defense 12.3.2019

Wenbin Zhang, proposal defense 11.11.2019

Nilavra Pathak, proposal defense 11.15.2017, final defense 4.26.2019

H M Sajjad Hossain, proposal defense 11.27.2017, final defense 4.25.2019

Neha Singh, comprehensive exam 10.24.2018

Timothy Casey, comprehensive exam 10.11.2018

Bipendra Basnyat, comprehensive exam 10.5.2018

MASTER'S STUDENTS

Current Advisees.

Ketki Deshpande (MS Thesis, Fall 2019 – Spring 2020, defended 4.16.2020)

Vibhor Dharmadhikari (Independent Study, Spring 2020)

Pranali Kulkarni (Independent Study, Spring 2020)

Neeharika Kusampudi (Independent Study, Spring 2020)

Kamlesh Pai (Independent Study, Spring 2020)

Harish Ramamoorthy (Independent Study, Spring 2020)

Ashwathy Sureshkumar (Independent Study, Spring 2020)

Former Advisees.

Priyanka Jadhav (Independent Study, Fall 2019)

Taif Ghiwaa (Independent Study, Spring 2018)

Divya Kavaturi (Independent Study, Spring 2018)

UNDERGRADUATE STUDENTS

Current Advisees.

Jordan Troutman (Spring 2019 – present). **Winner of the prestigious Goldwater Scholarship! Winner of a UMBC Undergraduate Research Award (URA), supporting his work with me from June 2019 – May 2020, \$1,500. Project: *A Fair Evaluation of the Effectiveness of the Violence Risk Appraisal Guide.***

Syeda Fatima (Independent Study, Fall 2019, collaboration – present)

Nithya Prakash (Spring 2019 – present). **Winner of a UMBC Center for Women in Technology (CWIT) Cyber-Scholar Program Scholarship. Cyber Scholars are awarded \$5,000-\$15,000 per year for 4 years.**

RESEARCH SUPPORT AND/OR FELLOWSHIPS

Awarded Grant Proposals

- 2019–2022 \$604,398, National Science Foundation (NSF), PI: Hamed Pirsiavash, CoPIs: Frank Ferraro, Cynthia Matuszek, Naghmeh Karimi, Damian Doyle, Senior Personnel: **James Foulds**, et al., *MRI, Acquisition of a Heterogeneous GPU Cluster to Facilitate Deep Learning Research at UMBC*
- 2019–2021 \$297,928, National Science Foundation (NSF), PI: **James Foulds**; coPIs: Shimei Pan, Ian Stockwell, *AI-DCL: Fairness for the Allocation of Healthcare Resources*
- 2019 \$50,000, National Science Foundation (NSF) OAC, PI: Shimei Pan; CoPIs: **James Foulds**; Vandana Janeja, *Workshop on Including Ethics in Data Science Pedagogy*
- 2019–2021 \$174,869, National Science Foundation (NSF), PI: **James Foulds**, *CRII: RI: A Little Uncertainty is Good for Everyone: Bayesian Models for Fairness, and Fairness for Bayesian Models*
- 2018–2019 \$101,402, National Institute of Standards (NIST) MSE 60NANB18D227, PI: **James Foulds**; coPI: Shimei Pan, *Differential Fairness for Artificial Intelligence and Machine Learning Systems: Unbiased Decisions with Biased Data*

Consultant Roles for Grants

- 2020-2022 \$2,400,000, National Science Foundation (NSF), PIs: D. W. Rice, R. Richardson, L. Hatley, K.E. Freeman, C. Winston-Proctor, Consultants: **James Foulds** and Shimei Pan, *HBCU-UP Broadening Participation Research Center*
- 2020-2022 \$49,511, Maryland Center for Computing Education (MCCE), PIs: P.A. Young, D. Kariuki, Consultant: **James Foulds**, *Exploring Computational Thinking with Preservice Teachers & Teacher Education Instructors*

PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS

Works Submitted or in Preparation

R. Islam, K.N. Keya, S. Pan, A.D. Sarwate, and J.R. Foulds. Differential fairness. *Under submission*, 2021.

R. Islam, S. Pan, and J.R. Foulds. Can we obtain fairness for free? *Under submission*, 2021.

Clarice Wang, Kathryn Wang, Andrew Bian, Rashidul Islam, Kamrun Naher Keya, James Foulds, and Shimei Pan. Gender bias in AI career recommendation: To remove or not to remove? *Under submission*, 2021.

G. Shan, J. Foulds, and S. Pan. Causal feature selection with dimension reduction for interpretable text classification. *ArXiv preprint arXiv:2010.04609v1 [cs.LG]*, 2020.

K. Keya, Y. Papanikolaou, and J. R. Foulds. Neural embedding allocation: Distributed representations of topic models. *Under submission, ArXiv preprint arXiv:1909.04702 [cs.CL]*, 2019.

Peer-Reviewed Conference Papers

R. Islam, K.N. Keya, Z. Zeng, S. Pan, and J.R. Foulds. Debiasing career recommendations with neural fair collaborative filtering. In *Proceedings of The Web Conference 2021 (accepted, in press)*, 2021.

K.N. Keya, R. Islam, S. Pan, I. Stockwell, and J.R. Foulds. Equitable allocation of healthcare resources with fair survival models. In *Proceedings of the 2021 SIAM International Conference on Data Mining (accepted, in press)*. SIAM, 2021.

Z. Zeng, R. Islam, K. Keya, J. Foulds, Y. Song, and S. Pan. Fair heterogeneous network embeddings. *Proceedings of the 15th International AAAI Conference on Web and Social Media (ICWSM) (accepted, in press)*, 2021.

K. Deshpande, S. Pan, and J. R. Foulds. Mitigating demographic bias in AI-based resume filtering. *Fairness in User Modeling, Adaptation and Personalization Workshop (FairUMAP 2020)*, 2020.

J. R. Foulds, R. Islam, K. Keya, and S. Pan. Bayesian modeling of intersectional fairness: The variance of bias. *SIAM International Conference on Data Mining (SDM)*, **acceptance rate 24%**, *ArXiv preprint arXiv:1811.07255 [cs.LG]*, 2020.

J. R. Foulds, R. Islam, K. Keya, and S. Pan. An intersectional definition of fairness. *36th IEEE International Conference on Data Engineering (ICDE)*, **typical acceptance rate 18%**, *ArXiv preprint arXiv:1807.08362 [CS.LG]*, 2020.

R. Islam and J. R. Foulds. Scalable collapsed inference for high-dimensional topic models. In *Proceedings of the 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, **long paper acceptance rate 26.3%**, 2019.

N. Pathak, J.R. Foulds, N. Roy, N. Banerjee, and R. Robucci. A Bayesian data analytics approach to buildings' thermal parameter estimation. In *Proceedings of the Tenth ACM International Conference on Future Energy Systems (ACM e-Energy)*, **long paper acceptance rate 24.3%**, 2019.

J. R. Foulds. Mixed membership word embeddings for computational social science. *Proceedings of the 21st International Conference on Artificial Intelligence and Statistics (AISTATS)*, **acceptance rate 33.2%**, 2018.

M. Park, J. R. Foulds, K. Chaudhuri, and M. Welling. DP-EM: Differentially private expectation maximization. *Proceedings of the 20th International Conference on Artificial Intelligence and Statistics (AISTATS)*, **acceptance rate 31.7%**, 2017.

J. R. Foulds, J. Geumlek, M. Welling, and K. Chaudhuri. On the theory and practice of privacy-preserving Bayesian data analysis. In *Proceedings of the 32nd Conference on Uncertainty in Artificial Intelligence (UAI)*, **acceptance rate 31.0%**, 2016.

- A. Grycner, G. Weikum, J. Pujara, J. R. Foulds, and L. Getoor. RELLY: Inferring hypernym relationships between relational phrases. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, **long paper acceptance rate 26.2%**, pages 971–981, Lisbon, Portugal, September 2015. Association for Computational Linguistics.
- S. Fakhraei, J. R. Foulds, M. Shashanka, and L. Getoor. Collective spammer detection in evolving multi-relational social networks. In *Proceedings of the 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, **acceptance rate 19.5%**, 2015.
- J. R. Foulds, S. H. Kumar, and L. Getoor. Latent topic networks: A versatile probabilistic programming framework for topic models. In *Proceedings of The 32nd International Conference on Machine Learning (ICML)*, **acceptance rate 26.0%**, 2015.
- X. He, T. Rekatsinas, J. R. Foulds, L. Getoor, and Y. Liu. HawkesTopic: A joint model for network inference and topic modeling from text-based cascades. In *Proceedings of the 32nd International Conference on Machine Learning (ICML)*, **acceptance rate 26.0%**, 2015.
- P. Kouki, S. Fakhraei, J. R. Foulds, M. Eirinaki, and L. Getoor. HyPER: A flexible and extensible probabilistic framework for hybrid recommender systems. In *Proceedings of the 9th ACM Conference on Recommender Systems (RecSys)*, **acceptance rate 21%**, 2015.
- A. Ramesh, S. H. Kumar, J. R. Foulds, and L. Getoor. Unsupervised models of aspect-sentiment for online course discussion forums. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*, **long paper acceptance rate 25.0%**, 2015.
- D. Sridhar, J. R. Foulds, B. Huang, M. Walker, and L. Getoor. Joint models of disagreement and stance in online debate. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*, **long paper acceptance rate 25.0%**, 2015.
- J. R. Foulds and P. Smyth. Annealing paths for the evaluation of topic models. In *Proceedings of the Thirtieth Conference on Uncertainty in Artificial Intelligence (UAI)*, **acceptance rate 32.0%**, 2014.
- J. R. Foulds and P. Smyth. Modeling scientific impact with topical influence regression. In *Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, **long paper acceptance rate 27%**, pages 113–123, Seattle, Washington, USA, October 2013. Association for Computational Linguistics.
- J. R. Foulds, L. Boyles, C. DuBois, P. Smyth, and M. Welling. Stochastic collapsed variational Bayesian inference for latent Dirichlet allocation. In *Proceedings of the 19th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, **acceptance rate 17.2%**, 2013.
- C. DuBois, J. R. Foulds, and P. Smyth. Latent set models for two-mode network data. In *Proceedings of the 5th International AAAI Conference on Weblogs and Social Media (ICWSM)*, **acceptance rate $\approx 20\%$** , 2011.
- J. R. Foulds, A. Asuncion, C. DuBois, C. T. Butts, and P. Smyth. A dynamic relational infinite feature model for longitudinal social networks. In *Proceedings of the 14th International Conference on AI and Statistics (AISTATS)*, **recent acceptance rates between 28%–36%**, 2011.

J. R. Foulds, N. Navaroli, P. Smyth, and A. Ihler. Revisiting MAP estimation, message passing and perfect graphs. In *Proceedings of the 14th International Conference on AI and Statistics (AISTATS)*, **recent acceptance rates between 28%–36%**, 2011.

J. R. Foulds and P. Smyth. Multi-instance mixture models and semi-supervised learning. In *SIAM International Conference on Data Mining (SDM)*, **recent acceptance rates between 22%–29%**, 2011.

J. R. Foulds and E. Frank. Speeding up and boosting diverse density learning. In *Proceedings of the 13th International Conference on Discovery Science (DS)*, 2010.

J. R. Foulds and E. Frank. Revisiting multi-instance learning via embedded instance selection. In *Proc. 21st Australasian Joint Conference on AI (AI)*, 2008.

Peer-Reviewed Journal Papers

J.R. Foulds and S. Pan. Are parity-based notions of AI fairness desirable? *Bulletin of the IEEE Technical Committee on Data Engineering*, 43(4):51–73, 2020.

M. Park, J. R. Foulds, K. Chaudhuri, and M. Welling. Variational Bayes in private settings (VIPS). *Journal of Artificial Intelligence Research (JAIR)*, 68:109–157, 2020.

J. T. Morton, A. Aksenov, L.-F. Nothias-Scaglia, J. R. Foulds, R. A. Quinn, M. H. Badri, T. L. Swenson, M. W. Van Goethem, T. R. Northen, Y. Vasquez-Beaza, M. Wang, N. A. Bokulich, A. Watters, S.-J. Song, R. Bonneau, P. C. Dorrestein, and R. Knight. Learning representations of microbe-metabolite interactions. *Nature Methods*, 2019.

Y. Papanikolaou, J. R. Foulds, T. N. Rubin, and G. Tsoumakas. Dense distributions from sparse samples: Improved Gibbs sampling parameter estimators for LDA. *Journal of Machine Learning Research*, 18(62):1–58, 2017.

J. R. Foulds and E. Frank. A review of multi-instance learning assumptions. *Knowledge Engineering Review*, 25(1), 2010.

J. R. Foulds and L. R. Foulds. Bridge lane direction specification for sustainable traffic management. *Asia-Pacific Journal of Operational Research*, 23(2), 2006.

J. R. Foulds and L. R. Foulds. A probabilistic dynamic programming model of rape seed harvesting. *International Journal of Operational Research*, 1(4), 2006.

Peer-Reviewed Workshop Papers, Symposium Papers, and Extended Abstracts

K. Deshpande, S. Pan, and J. R. Foulds. Mitigating socio-linguistic bias in job recommendation. *Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL)*, 2020.

J. R. Foulds, M. Park, K. Chaudhuri, and M. Welling. Variational Bayes in private settings (VIPS) (extended abstract). *29th International Joint Conference on Artificial Intelligence and the 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020) Journal Track*, 2020.

K. Keya, R. Islam, S. Pan, I. Stockwell, and J. R. Foulds. Equitable allocation of healthcare resources with fair cox models. *AAAI Fall Symposium on AI in Government and Public Sector (AAAI FSS-20)*, 2020.

M. Rahman and J. R. Foulds. End-to-end joint modeling for fake news detection. *Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL)*, 2020.

C. Wang, K. Wang, A. Bian, R. Islam, K. Keya, J. R. Foulds, and S. Pan. A user study on a de-biased career recommender system. *Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL)*, 2020.

J. R. Foulds, R. Islam, K. Keya, and S. Pan. Differential fairness. *NeurIPS 2019 Workshop on Machine Learning with Guarantees*, 2019.

R. Islam, K. Keya, S. Pan, and J. R. Foulds. Mitigating demographic biases in social media-based recommender systems. *The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) Social Impact Track (extended abstract)*, 2019.

T. Ghiwaa and J. R. Foulds. Training WGANs with peer instruction. In *Mid-Atlantic Student Colloquium on Speech, Language and Learning*, 2018.

R. Islam and J. R. Foulds. Towards a highly efficient online inference algorithm for latent Dirichlet allocation. In *Mid-Atlantic Student Colloquium on Speech, Language and Learning*, 2018.

K. Keya and J. R. Foulds. Neural embedding allocation: Distributed representations of words, topics, and documents. In *Mid-Atlantic Student Colloquium on Speech, Language and Learning*, 2018.

J. R. Foulds. Mixed membership word embeddings. In *SoCal Machine Learning Symposium (SCMLS)*, 2016.

M. Park, J. R. Foulds, K. Chaudhuri, and M. Welling. Private topic modeling. *NIPS Workshop on Private Multi-Party Machine Learning (PMPML)*, 2016.

A. Grycner, G. Weikum, J. Pujara, J. R. Foulds, and L. Getoor. A unified probabilistic approach for semantic clustering of relational phrases. In *4th Workshop on Automated Knowledge Base Construction (AKBC)*, 2014.

D. Sridhar, J. R. Foulds, B. Huang, M. Walker, and L. Getoor. Collective classification of stance and disagreement in online debate forums. In *Bay Area Machine Learning Symposium (BayLearn)*, 2014.

J. R. Foulds and D. Görür. Diverse personalization with determinantal point process eigenmixtures. In *NIPS Workshop on Personalization*, 2013.

J. R. Foulds and P. Smyth. Robust evaluation of topic models. In *NIPS Workshop on Topic Models*, 2013.

J. R. Foulds and P. Smyth. Modeling scientific impact with topical influence regression. In *NIPS Workshop on Algorithmic and Statistical Approaches for Large Social Network Data Sets*, 2012.

Theses

J. R. Foulds. *Latent Variable Modeling for Networks and Text: Algorithms, Models and Evaluation Techniques*. PhD thesis, University of California, Irvine, 2014.

J. R. Foulds. Learning instance weights in multi-instance learning. Master's thesis, University of Waikato, Hamilton, New Zealand, 2008.

J. R. Foulds. Learning to play the game of Go. Honours thesis, University of Waikato, Hamilton, New Zealand, 2006.

Presentations

Note: All conference and workshop publications were presented at the event, either by myself or by a student co-author. This list contains additional invited presentations, and presentations accepted based on an abstract.

Presentations with Refereed Abstracts.

(accepted, SDM 2020 tutorial: *Mining Dynamic Networks with Generative Models* (with Kevin Xu), postponed) Cincinnati, OH (postponed indefinitely due to COVID-19)

Sept. 2019 UMBC Provost's Teaching and Learning Symposium. *Including Ethics in Data Science Pedagogy: Why, What and How?* V. Janeja, S. Pan, J. Foulds, L. Boot. Poster presented by V. Janeja.

July 2019 The 27th Conference on Intelligent Systems for Molecular Biology / the European Conference on Computational Biology (ISMB/ECCB) 2019 Abstracts. *Identifying microbe-metabolite interactions with a compositional matrix factorization.* J. T. Morton, A. Aksenov, R. Knight, S. J. Song, R. Bonneau, M. Badri, T. Northen, Marc Van Goethem, T. Swenson, R. Quinn, J. R. Foulds, L.-F. Nothias-Scaglia, P. Dorrestein. Presented by R. Bonneau

June 2018 ICWSM 2018 tutorial: *Generative Models for Social Media Analytics: Networks, Text, and Time* (with Kevin Xu), Stanford, CA

Non-Refereed and Invited Presentations.

Oct. 2020 Leidos Innovations Center (LInC) AI/ML reading group meeting, Leidos, Arlington, VA (online talk, upcoming).

Feb. 2020 Faculty Development Center (FDC) *Workshop on Concept Mapping* (presenter), UMBC

Nov. 2019 2019 Advancing Ethical Research (AER) Conference, hosted by Public Responsibility in Medicine and Research (PRIM&R). Panelist/presenter in *From Fortnite to Facebook: Data Security and Breaches, Downstream Harms, and the (Precarious) Role of IRBs*, Boston, MA

Oct. 2019 National Science and Technology Medal Foundation (NSMTF) panelist, "*Science Unscripted: Conversation with AI Experts*," UMBC. The audience included a group of specially selected high-school students.

Sept. 2019 UMBC Information Systems Department Research Seminar

August 2019 University of Southern California (USC) Information Sciences Institute (ISI), Artificial Intelligence Seminar

June 2019 Workshop on Including Ethics in Data Science Pedagogy (EDSP 2019), co-organizer, panel moderator, and presenter, Alexandria, VA

May 2019 Escape Velocity 2019 by the Museum of Science Fiction, Gaylord National Resort & Convention Center, National Harbor, Washington, D.C.

April 2019 RIKEN Center for Advanced Intelligence Project (AIP), Tokyo, Japan

March 2019 University of Baltimore School of Law, Legal Hackers Baltimore meeting

Feb. 2019 Information Theory and Applications (ITA) Workshop, San Diego, CA

Feb. 2019 Maryland State Bar Association Conference, Towson, MD

Dec. 2018 Johns Hopkins University, Applied Physics Laboratory (APL) Seminar

Dec. 2018 UMBC, guest lecture for Introduction to Data Science class

Nov. 2018 Johns Hopkins University, Center for Language and Speech Processing (CSLP) Seminar

- Nov.2018 Artificial Intelligence Maryland (MD-AI) Seminar, Emerging Technology Centers (ETC), Baltimore, MD
 - Nov. 2018 Federal Trade Commission (FTC) Hearing on Artificial Intelligence and Algorithmic Decision Tools, Howard University School of Law, Washington, DC
 - Oct. 2018 AAAI Fall Symposium on AI for Government and Public Sector Applications, Arlington, VA
 - Sept. 2018 Networking and Information Technology Research and Development (NITRD) Interagency Working Group on Privacy R & D, National Coordination Office, Washington, DC
 - Sept. 2018 George Mason University, UMBC Group Visit on Cognitive Computing
 - June 2018 National Institute of Standards (NIST) Gaithersburg, AI Community of Interest Seminar
 - April 2018 UMBC, ACM Faculty Seminar
 - Feb 2018 UMBC, Discussant for a screening of the AlphaGo documentary
 - March 2017 UMBC
 - March 2017 Oregon State University
 - March 2017 Tulane University
 - March 2017 UC Riverside
 - Feb. 2017 Boston College
 - Feb. 2017 California State University – Long Beach
 - Jan. 2017 UCSD, Artificial Intelligence Seminar
 - July 2016 SBP-BRIMS 2016 invited tutorial: *Generative Models for Social Network Data* (with Kevin Xu), UCDC, Washington DC
 - May 2016 USC, Artificial Intelligence Seminar
 - April 2016 UCSD, Angela Yu's lab
 - Jan. 2016 UCI, Center for Machine Learning and Intelligent Systems Seminar
 - Nov. 2015 UCSD, Artificial Intelligence Seminar
 - April 2015 Banff International Research Station (BIRS), New Perspectives for Relational Learning Workshop
 - August 2014 eBay Research Labs
- Media Activities.**
- Oct. 2019 ACLU Maryland Podcast: Racism, Algorithms, and the Fight for Redemption. Amber Taylor (Host), Earl Young, James R. Foulds, Sonia Kumar (contributors)

SERVICE TO THE DEPARTMENT, UNIVERSITY, COMMUNITY, AND PROFESSION

Organizational Roles.

- Co-Organizer, Workshop on Including Ethics in Data Science Pedagogy (EDSP 2019).
- Workflow Chair, Artificial Intelligence and Statistics (AISTATS) 2019 conference.
- Co-Chair, Information Theory and Applications (ITA) 2016–2017.

Departmental Committees.

- IS Department Research Seminar Organizer, Fall 2019.
- IS Department Research Committee, Fall 2019.
- IS Department Tenure-Track Search Committee, Fall 2019 – Spring 2020.

IS Department AI/KM Tenure-Track Search Committee, Fall 2018 – Spring 2019.

2020 **Journal Editing.**

Bulletin of the IEEE Technical Committee on Data Engineering 43:(4) Special Issue: Interdisciplinary Perspectives on Fairness and Artificial Intelligence Systems, editor (with Shimei Pan)

2020 **Grant Proposal Reviewing.**

NSF, panel reviewer (1 panel).

2020 **Conference Program Committee Reviewer, ICML (area chair), AISTATS, NeurIPS, SBP-BRiMS, EMNLP.**

2020 **Journal Reviewing, TACL, Nature Communications.**

2019 **Grant Proposal Reviewing.**

NSF, panel reviewer (1 panel).

NSF, ad-hoc reviewer (1 proposal).

George Mason University, Transdisciplinary Centers for Advanced Study panel reviewer.

(The winning centers each received funding of \$125,000 per year for up to 5 years.)

2019 **Conference Program Committee Reviewer, ICML (area chair), AAI (Senior Program Committee member), NeurIPS (awarded free registration as one of the top reviewers), IJCAI, NeurIPS 2019 Workshop on Privacy in Machine Learning (PRiML).**

2019 **Journal Reviewing, TACL, DAMI, Nature Communications.**

2018 **Conference Program Committee Reviewer, NAACL, ACL, ICML, IJCAI, UAI, WWW BigNet Workshop.**

2018 **Journal Reviewing, TACL.**

2017 **Conference Program Committee Reviewer, ICML, ICLR, IJCAI, UAI, ACL.**

2017 **Journal Reviewing, MLJ, TACL, FGCS.**

2017 **Grant Proposal Reviewing, National Fund for Scientific and Technological Development (FONDECYT) of the Chilean National Commission for Scientific and Technological Research (CONICYT), 2018 FONDECYT Regular Competition.**

2016 and earlier **Conference Program Committee Reviewer, NIPS, ICML, AAI, IJCAI, AISTATS, UAI, ACL, NAACL, WWW, ICRA, IEEE BigData, NIPS Topic Models Workshop.**

2016 and earlier **Journal Reviewing, JMLR, JAIR, Annals of Applied Statistics, Neural Computation, MLJ, AIJ, ACM TIST, TACL, IEEE TNNLS, IEEE TKDE, DAMI, SWJ, CAMWA.**

2007–2008 **Problem Sponsor/Problem Reviewer, ACM South Pacific Region Programming Contest 2007.**

2007 **Problem Sponsor/Reviewer, New Zealand Programming Contest 2007.**

MISCELLANEOUS

Citizenship U.S. and New Zealand dual citizenship.

Trivia My Erdős number is two (J. R. Foulds - L. R. Foulds - P. Erdős)

ACM Executive Committee member for the University Waikato ACM Student Chapter 2005–2008.