

Manuel Gomez Rodriguez

CONTACT INFORMATION	MPI-SWS Paul-Ehrlich-Strasse, Building G26 Kaiserslautern 67663, Germany	<i>Voice:</i> +49 631-9303-8301 <i>E-mail:</i> manuelgr@mpi-sws.org <i>Website:</i> http://learning.mpi-sws.org
CITIZENSHIP	Spanish	
BIRTHDAY	June 30, 1983	
ACADEMIC DEGREES	Stanford University , Stanford, CA USA. Max Planck Institute for Intelligent Systems , Tübingen, Germany. Ph.D., Electrical Engineering, June 2013. Thesis Committee: Andrew Ng, Bernhard Schölkopf, Jure Leskovec, Emmanuel Candes and Christopher Potts. Stanford University , Stanford, CA USA. M.S., Electrical Engineering, April 2009. Carlos III University , Madrid, Spain. B.S., Telecommunications Engineering (Summa Cum Laude), July 2006.	
RESEARCH INTERESTS	Machine learning and large-scale data mining methods for the analysis, modeling and control of social, information and networked systems. Human-centric machine learning.	
PROFESSIONAL EXPERIENCE	Max Planck Institute for Software Systems , Kaiserslautern, Germany. Tenure-track faculty (W2). Since November 2014. Reasonal, DE GmbH. , Berlin, Germany. Co-founder. June 2019 to August 2020. Max Planck Institute for Intelligent Systems , Tübingen, Germany. Research Scientist. September 2013 to October 2014. Max Planck Institute for Intelligent Systems , Tübingen, Germany. Postdoctoral Fellow. January 2013 to August 2013. Max Planck Institute for Intelligent Systems , Tübingen, Germany. Max Planck Institute for Biological Cybernetics , Tübingen, Germany. Research Assistant. September 2009 to December 2012. LinkedIn , Mountainview, CA, USA. Intern. June 2011 to September 2011. Max Planck Institute for Biological Cybernetics , Tübingen, Germany. Intern. June 2008 to September 2008. Analog Devices , Limerick, Ireland.	

Graduate Engineer.
July 2006 to June 2007.

ACADEMIC
HONORS

ERC Starting Grant, 2020.
ELLIS Member and Fellow, 2019.
WWW Best Paper Award Honorable Mention, 2017.
NIPS Outstanding Paper Award, 2013.
Pedro Barrie de la Maza Foundation Fellowship, 2010-2013.
ICML Student Travel Scholarship, 2011.
Best Research Paper Award Honorable Mention at ACM SIGKDD, 2010.
KDD Student Travel Award, 2010.
BCI Meeting Student Scholarship, 2010.
Caja Madrid Foundation Fellowship, 2007-2009.
Caixa Galicia Foundation Fellowship, 2007-2008 (Declined).
Spanish Ministry of Education FPI Fellowship, 2007-2010 (Declined).
Spanish Ministry of Education Undergraduate Fellowship, 2004-2006.

PUBLICATIONS

Bibliographic indicators (Google Scholar, January 2021):

Citations: 6384, h-index: 31, i10-index: 47. Conference publications are archival and selectively refereed in Computer Science.

Theses:

[86] **M. Gomez Rodriguez**. Structure and Dynamics of Diffusion Networks. *Ph.D. Thesis, Department of Electrical Engineering, Stanford University*, June 2013.

Journals:

[85] I. Routledge, S. Lai, K. E. Battle, A. C. Ghani, **M. Gomez Rodriguez**, K. B. Gustafson, S. Mishra, J. L. Proctor, A. J. Tatem, Z. Li and S. Bhatt. Tracking progress towards malaria elimination in China: individual-level estimates of transmission and its spatiotemporal variation using a diffusion network approach. *PLOS Computational Biology*, 2020.

[84] B. Samanta, A. De, G. Jana, P. K. Chattaraj, N. Ganguly and **M. Gomez Rodriguez**. NEVAE: A Deep Generative Model for Molecular Graphs. *Journal of Machine Learning Research (JMLR)*, 2020.

[83] B. Tabibian, U. Upadhyay, A. De, A. Zarezade, B. Schölkopf and **M. Gomez Rodriguez**. Enhancing Human Learning via Spaced Repetition Optimization. *Proceedings of the National Academy of Sciences (PNAS)*, 2019.

[82] B. Zafar, I. Valera, **M. Gomez Rodriguez** and K. Gummadi. Fairness Constraints: A Flexible Approach for Fair Classification. *Journal of Machine Learning Research (JMLR)*, 2019.

[81] I. Routledge, J. E. Romero Chevez, Z. Cucunuba, **M. Gomez Rodriguez**, C. Guinovart, K. Schneider, P. Walker, K. Gustafson, A. Ghani and S. Bhatt. Estimating spatiotemporally varying malaria reproduction numbers in a near elimination setting. *Nature Communications*, 2018.

[80] A. Zarezade, A. De, U. Upadhyay, H. Rabiee and **M. Gomez Rodriguez**. Steering Social Activity: A Stochastic Optimal Control Point of View. *Journal of Machine Learning Research (JMLR)*, 2018.

[79] M. Farajtabar, Y. Chang, **M. Gomez Rodriguez**, S. Li, H. Zha and L. Song. COEVOLVE: A Joint Point Process Model for Information Diffusion and Network Co-evolution. *Journal of Machine Learning Research (JMLR)*, 2017.

- [78] N. Du, Y. Liang, M. Balcan, **M. Gomez Rodriguez**, H. Zha and L. Song. Scalable Influence Maximization for Multiple Products in Continuous-Time Diffusion Networks. *Journal of Machine Learning Research (JMLR)*, 2017.
- [77] **M. Gomez Rodriguez**, L. Song, H. Daneshmand and B. Schölkopf. Estimating Diffusion Networks: Recovery Conditions, Sample Complexity & Soft-thresholding Algorithm. *Journal of Machine Learning Research (JMLR)*, 2016.
- [76] **M. Gomez Rodriguez**, L. Song, N. Du, H. Zha and B. Schölkopf. Influence Estimation and Maximization in Continuous-Time Diffusion Networks. *ACM Transactions on Information Systems (TOIS)*, 2016.
- [75] **M. Gomez Rodriguez**, J. Leskovec, D. Balduzzi and B. Schölkopf. Uncovering the Structure and Temporal Dynamics of Information Propagation. *Network Science*, 2014.
- [74] **M. Gomez Rodriguez**, J. Leskovec and A. Krause. Inferring networks of diffusion and influence. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, Volume 5, Number 4, 2012.
- [73] **M. Gomez Rodriguez**, J. Peters, J. Hill, B. Schölkopf, A. Gharabaghi and M. Grosse-Wentrup. Closing the sensorimotor loop: haptic feedback facilitates decoding of motor imagery. *Journal of Neural Engineering*, Volume 8, Number 3, 2011.
- Conferences:**
- [72] A. De, O. Nastaran, A. Zarezade and **M. Gomez Rodriguez**. Classification Under Human Assistance. *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI)*, 2021.
- [71] S. Tsirtsis and **M. Gomez Rodriguez**. Decisions, Counterfactual Explanations and Strategic Behavior. *Advances in Neural Information Processing Systems (NeurIPS)*, 2020.
- [70] B. Tabibian, V. Gomez, A. De, B. Schölkopf and **M. Gomez Rodriguez**. On the Design of Consequential Ranking Algorithms. *The 2020 Conference on Uncertainty in Artificial Intelligence (UAI)*, 2020.
- [69] N. Kilbertus, **M. Gomez Rodriguez**, B. Schölkopf, K. Muandet and I. Valera. Fair Decisions Despite Imperfect Predictions. *Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2020.
- [68] A. De, P. Koley, N. Ganguly and **M. Gomez Rodriguez**. Regression Under Human Assistance. *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- [67] A. De, A. Singla, U. Upadhyay and **M. Gomez Rodriguez**. Can A User Guess What Her Followers Want? *Proceedings of the 13th ACM International Conference on Web Search and Data Mining (WSDM)*, 2020.
- [66] A. Hunziker, Y. Chen, O. M. Aodha, **M. Gomez Rodriguez**, A. Krause, P. Perona, Y. Yue and A. Singla. Teaching Multiple Concepts to Forgetful Learners. *Neural Information Processing Systems (NeurIPS)*, 2019.
- [65] B. Samanta, A. De, G. Jana, P. K. Chattaraj, N. Ganguly and **M. Gomez Rodriguez**. Designing Deep Generative Models for Molecular Graphs. *Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- [64] U. Upadhyay, A. De and **M. Gomez Rodriguez**. On the Complexity of Opinions and Online Discussions. *Proceedings of the 12th ACM International Conference on Web Search and Data Mining (WSDM)*, 2019.

- [63] U. Upadhyay, A. De and **M. Gomez Rodriguez**. Deep Reinforcement Learning of Marked Temporal Point Processes. *Advances in Neural Information Processing Systems (NeurIPS)*, 2018.
- [62] I. Valera, A. Singla and **M. Gomez Rodriguez**. Enhancing the Accuracy and Fairness of Human Decision Making. *Advances in Neural Information Processing Systems (NeurIPS)*, 2018.
- [61] S. Tschitschek, A. Singla, **M. Gomez Rodriguez**, A. Merchant and A. Krause. Fake News Detection in Social Networks via Crowd Signals. *Proceedings of the Web Conference (WWW) Alternate Track on Journalism, Misinformation and Fact-checking*, 2018.
- [60] T. Kusmierczyk and **M. Gomez Rodriguez**. On the Causal Effect of Badges. *Proceedings of the Web Conference (WWW)*, 2018.
- [59] J. Kim, B. Tabibian, A. Oh, B. Schölkopf and **M. Gomez Rodriguez**. Leveraging the Crowd to Detect and Reduce the Spread of Fake News and Misinformation. *Proceedings of the 11th ACM International Conference on Web Search and Data Mining (WSDM)*, 2018.
- [58] B. Zafar, I. Valera, **M. Gomez Rodriguez**, K. Gummadi and A. Weller. From Parity to Preference: Learning with Cost-effective Notions of Fairness. *Advances in Neural Information Processing Systems (NIPS)*, 2017.
- [57] A. Zarezade, A. De, H. Rabiee and **M. Gomez Rodriguez**. Cheshire: An Online Algorithm for Activity Maximization in Social Networks. *55th Annual Allerton Conference on Communication, Control, and Computing*, 2017 (Invited paper).
- [56] B. Zafar, I. Valera, **M. Gomez Rodriguez** and K. Gummadi. Training Fair Classifiers. *Proceedings of the 20th International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2017.
- [55] M. Jankowiak and **M. Gomez Rodriguez**. Uncovering the Spatiotemporal Patterns of Collective Social Activity. *Proceedings of the 2017 SIAM International Conference on Data Mining (SDM)*, 2017.
- [54] B. Tabibian, I. Valera, M. Farajtabar, L. Song, B. Schölkopf and **M. Gomez Rodriguez**. Distilling Information Reliability and Source Trustworthiness from Digital Traces. *Proceedings of the 26th International World Wide Web Conference (WWW)*, 2017.
- [53] M. Mavroforakis, I. Valera and **M. Gomez Rodriguez**. Modeling the Dynamics of Online Learning Activity. *Proceedings of the 26th International World Wide Web Conference (WWW)*, 2017.
- [52] B. Zafar, I. Valera, **M. Gomez Rodriguez** and K. Gummadi. Fairness Beyond Disparate Treatment & Disparate Impact: Learning Classification without Disparate Mistreatment. *Proceedings of the 26th International World Wide Web Conference (WWW)*, 2017 (**Best Research Paper Award Honorable Mention**).
- [51] A. Zarezade, U. Upadhyay, H. Rabiee and **M. Gomez Rodriguez**. RedQueen: An Online Algorithm for Smart Broadcasting in Social Networks. *Proceedings of the 10th ACM International Conference on Web Search and Data Mining (WSDM)*, 2017.
- [50] U. Upadhyay, I. Valera and **M. Gomez Rodriguez**. Uncovering the Dynamics of Crowdlearning and the Value of Knowledge. *Proceedings of the 10th ACM International Conference on Web Search and Data Mining (WSDM)*, 2017.
- [49] M. Backes, **M. Gomez Rodriguez**, P. Manoharan and B. Surma. Reconciling Privacy and Utility in Continuous-Time Diffusion Networks. *Proceedings of the 30th*

IEEE Computer Security Foundations Symposium (CSF), 2017.

[48] S. Le Blond, C. Gilbert, U. Upadhyay, **M. Gomez Rodriguez** and D. Choffnes. A Broad View of the Ecosystem of Socially Engineered Exploit Documents. *Proceedings of the Network and Distributed System Security Symposium (NDSS)*, 2017.

[47] A. De, I. Valera, N. Ganguly, S. Bhattacharya and **M. Gomez Rodriguez**. Learning and Forecasting Opinion Dynamics in Social Networks. *Advances in Neural Information Processing Systems (NIPS)*, 2016.

[46] M. Karimi, E. Tavakoli, M. Farajtabar, L. Song and **M. Gomez Rodriguez**. Smart Broadcasting: Do You Want to Be Seen? *Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2016.

[45] N. Du, H. Dai, R. Trivedi, U. Upadhyay, **M. Gomez Rodriguez** and L. Song. Recurrent Temporal Point Process. *Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2016.

[44] M. Babaei, P. Grabowicz, I. Valera, K. Gummadi and **M. Gomez Rodriguez**. On the Efficiency of the Information Networks in Social Media. *The 9th ACM International Conference on Web Search and Data Mining (WSDM)*, 2016.

[43] M. Farajtabar, Y. Chang, **M. Gomez Rodriguez**, S. Li, H. Zha and L. Song. COEVOLVE: A Joint Point Process Model for Information Diffusion and Network Co-evolution. *Advances in Neural Information Processing Systems (NIPS)*, 2015.

[42] I. Valera and **M. Gomez Rodriguez**. Modeling Adoption and Usage of Competing Products. *Proceedings of the IEEE International Conference on Data Mining (ICDM)*, 2015.

[41] M. Babaei, P. Grabowicz, I. Valera and **M. Gomez Rodriguez**. On the Users' Efficiency in the Twitter Information Network. *Proceedings of the 9th International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2015.

[40] M. Farajtabar, **M. Gomez Rodriguez**, N. Du, M. Zamani, H. Zha and L. Song. Back to the Past: Source Identification in Diffusion Networks from Partially Observed Cascades. *Proceedings of the 18th International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2015.

[39] M. Farajtabar, N. Du, **M. Gomez Rodriguez**, I. Valera, H. Zha, and L. Song. Shaping Social Activity by Incentivizing Users. *Advances in Neural Information Processing Systems (NIPS)*, 2014.

[38] H. Daneshmand, **M. Gomez Rodriguez**, L. Song and B. Schölkopf. Estimating Diffusion Network Structures: Recovery Conditions, Sample Complexity & Soft-thresholding Algorithm. *Proceedings of the 31st International Conference on Machine Learning (ICML)*, 2014 (**Recommended for JMLR Fast Track**).

[37] **M. Gomez Rodriguez**, K. Gummadi and B. Schölkopf. Quantifying Information Overload in Social Media and its Impact on Social Contagions. *Proceedings of the 8th International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2014.

[36] N. Du, L. Song, **M. Gomez Rodriguez** and H. Zha. Scalable Influence Estimation in Continuous Time Diffusion Networks. *Advances in Neural Information Processing Systems (NIPS)*, 2013 (**Outstanding Paper Award**).

[35] **M. Gomez Rodriguez**, J. Leskovec and B. Schölkopf. Modeling Information Propagation with Survival Theory. *Proceedings of the 30th International Conference on Machine Learning (ICML)*, 2013.

[34] **M. Gomez Rodriguez**, J. Leskovec and B. Schölkopf. Structure and Dynamics of Information Pathways in Online Media. *Proceedings of the 6th International Conference*

on *Web Search and Data Mining (WSDM)*, 2013.

[33] **M. Gomez Rodriguez** and M. Rogati. Bridging Offline and Online Social Graph Dynamics. *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM)*, 2012.

[32] **M. Gomez Rodriguez** and B. Schölkopf. Influence Maximization in Continuous Time Diffusion Networks. *Proceedings of the 29th International Conference on Machine Learning (ICML)*, 2012.

[31] **M. Gomez Rodriguez** and B. Schölkopf. Submodular Inference of Diffusion Networks from Multiple Trees. *Proceedings of the 29th International Conference on Machine Learning (ICML)*, 2012.

[30] **M. Gomez Rodriguez**, D. Balduzzi and B. Schölkopf. Uncovering the Temporal Dynamics of Diffusion Networks. *Proceedings of the 28th International Conference on Machine Learning (ICML)*, 2011.

[29] **M. Gomez Rodriguez**, M. Grosse-Wentrup, J. Hill, A. Gharabaghi, B. Schölkopf and J. Peters. Towards Brain-Robot Interfaces in Stroke Rehabilitation. *Proceedings of the 12th International Conference on Rehabilitation Robotics (ICORR)*, 2011.

[28] **M. Gomez Rodriguez**, J. Leskovec and A. Krause. Inferring Networks of Diffusion and Influence. *Proceedings of the 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2010 (**Best Research Paper Award Honorable Mention**).

[27] **M. Gomez Rodriguez**, J. Kober and B. Schölkopf. Denoising photographs using dark frames optimized by quadratic programming. *Proceedings of the 1st IEEE International Conference in Computational Photography (ICCP)*, 2009.

Workshops:

[26] Stratis Tsirtsis and **Manuel Gomez Rodriguez**. Decisions, Counterfactual Explanations and Strategic Behavior. *4th Workshop on Mechanism Design for Social Good (MD4SG)*, 2020.

[25] A. De, P. Koley, N. Ganguly and **M. Gomez Rodriguez**. Regression Under Human Assistance. *Neural Information Processing Systems (NeurIPS): Workshop on Human-Centric Machine Learning*, 2019.

[24] M. Khajehnejad, B. Tabibian, A. Singla, B. Schölkopf and **M. Gomez Rodriguez**. Optimal Decision Making Under Strategic Behavior. *Neural Information Processing Systems (NeurIPS): Workshop on Human-Centric Machine Learning*, 2019.

[23] N. Kilbertus, **M. Gomez Rodriguez**, B. Schölkopf, K. Muandet and I. Valera. Improving Consequential Decision Making under Imperfect Predictions. *SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD): Workshop on Data Collection, Curation, and Labeling for Mining and Learning*, 2019.

[22] A. De, U. Upadhyay and **M. Gomez Rodriguez**. Can A User Guess What Her Followers Want? *Electronic Commerce (EC): Workshop on Behavioral EC*, 2019.

[21] B. Tabibian, V. Gomez, A. De, B. Schölkopf and **M. Gomez Rodriguez**. Building Consequential Rankings. *The Web Conference (WWW): International Workshop on Misinformation, Computational Fact-Checking and Credible Web*, 2019.

[20] L. Loch, A. De, S. Bhatt, W. Trouleau, U. Upadhyay and **M. Gomez Rodriguez**. Stochastic Optimal Control of Epidemic Processes in Networks. *Advances in Neural Information Processing Systems (NeurIPS): Machine Learning for Health Workshop (ML4H)*, 2018.

- [19] J. Kapoor, A. Vergari, **M. Gomez Rodriguez** and Isabel Valera. Bayesian Non-parametric Hawkes Processes. *Advances in Neural Information Processing Systems (NeurIPS): All of Bayesian Nonparametrics Workshop (BNP)*, 2018.
- [18] B. Samanta, A. De, N. Ganguly and **M. Gomez Rodriguez**. Designing Random Graph Models Using Variational Autoencoders with Applications to Chemical Design. *35th International Conference on Machine Learning (ICML): Workshop in Theoretical Foundations and Applications of Deep Generative Models (TADGM)*, 2018.
- [17] I. Valera, A. Singla and **M. Gomez Rodriguez**. Enhancing Human Decision Making via Assignment Optimization. *35th International Conference on Machine Learning (ICML): FATML Workshop*, 2018.
- [16] B. Tabibian, U. Upadhyay, A. De, A. Zarezade, B. Schölkopf and **M. Gomez Rodriguez**. Optimizing Human Learning. *Neural Information Processing Systems (NIPS): Workshop in Teaching Machines, Robots, and Humans*, 2017.
- [15] B. Zafar, I. Valera, **M. Gomez Rodriguez**, K. Gummadi and A. Weller. Preference vs. Parity-based Notions of Fairness. *FATML Workshop*, 2017.
- [14] U. Upadhyay, I. Valera and **M. Gomez Rodriguez**. On Crowdlearning: How do People Learn in the Wild. *Neural Information Processing Systems (NIPS): Workshop in ML for Education*, 2016.
- [13] B. Zafar, I. Valera, **M. Gomez Rodriguez** and K. Gummadi. Fairness Beyond Disparate Treatment and Disparate Impact: Learning Classification without Disparate Mistreatment. *FATML Workshop*, 2016.
- [12] B. Tabibian, M. Farajtabar, I. Valera, L. Song, B. Schölkopf and **M. Gomez Rodriguez**. On the Reliability of Information and Trustworthiness of Web Sources in Wikipedia. *10th International Conference on Web Search and Social Media (ICWSM): Wiki Workshop*, 2016.
- [11] C. Mavroforakis, I. Valera and **M. Gomez Rodriguez**. Hierarchical Dirichlet Hawkes Process for Modeling the Dynamics of Online Learning Activity. *Advances in Neural Information Processing Systems (NIPS): Workshop in Networks in the Social and Information Sciences*, 2015.
- [10] B. Zafar, I. Valera, **M. Gomez Rodriguez** and K. Gummadi. Fairness Constraints: A Mechanism for Fair Classification. *FATML Workshop*, 2015.
- [9] M. Farajtabar, **M. Gomez Rodriguez**, Y. Wang, S. Li, H. Zha and L. Song. Co-evolutionary Dynamics of Information Diffusion and Network Structure. *24th International World Wide Web Conference (WWW): Workshop on Diffusion, Activity and Events in Networks: Models, Methods & Applications*, 2015.
- [8] I. Valera, **M. Gomez Rodriguez** and K. Gummadi. Modeling Adoption of Competing Products and Conventions in Social Media. *Neural Information Processing Systems: Workshop in Networks (NIPS): From Graphs to Rich Data*, 2014.
- [7] **M. Gomez Rodriguez**, K. Gummadi and B. Schölkopf. Quantifying the Impact of Information Overload on Information Dissemination in Social Media. *Workshop on Information in Networks (WIN)*, 2013.
- [6] **M. Gomez Rodriguez** and B. Schölkopf. Modeling Information Propagation with Survival Theory. *Neural Information Processing Systems (NIPS): Workshop in Algorithmic and Statistical Approaches for Large Social Networks*, 2012.
- [5] **M. Gomez Rodriguez**, J. Peters, J. Hill, B. Schölkopf, A. Gharabaghi and M. Grosse-Wentrup. Closing the Sensorimotor Loop: Haptic Feedback Facilitates Decoding of Arm Movement Imagery. *SMC Workshop in Shared-Control for BMI (SMC)*, 2010.

[4] **M. Gomez Rodriguez**, M. Grosse-Wentrup, J. Peters, G. Naros, J. Hill, B. Schölkopf and A. Gharabaghi. Epidural ECoG Online Decoding of Arm Movement Intention in Hemiparesis. *ICPR Workshop on Brain Decoding (ICPR)*, 2010.

[3] **M. Gomez Rodriguez**, J. Peters, J. Hill, A. Gharabaghi, B. Schölkopf and M. Grosse-Wentrup. BCI and robotics framework for stroke rehabilitation. *4th International BCI Meeting*, 2010.

Extended abstracts:

[2] M. Farajtabar, **M. Gomez Rodriguez**, Y. Chang, S. Li, H. Zha and L. Song. COEVOLVE: A Joint Point Process Model for Information Diffusion and Network Co-evolution. *The Web Conference Journal Track (WWW)*, 2018.

[1] J. Kim, B. Tabibian, A. Oh, B. Schölkopf and **M. Gomez Rodriguez**. Leveraging the Crowd to Detect and Reduce the Spread of Fake News and Misinformation. *Neural Information Proceedings Systems (NIPS): Workshop on Prioritising Online Content*, 2017.

INVITED TALKS

MPG Intersectional Symposium on Computing and Society, January 2021.
Workshop on Sampling and Clustering, MPI for Physics, Virtual, October 2020.
CIFAR/ELLIS discussion on contact tracing, Virtual, June 2020.
Imperial College, Virtual, May 2020.
JetBrains Research, Virtual, May 2020.
Google X, Virtual, May 2020.
MPI for Intelligent Systems, Virtual, May 2020.
Covid-19 ELLIS Health Workshop, Virtual, April 2020.
Applied Machine Learning Days at EPFL, Lausanne (Switzerland), January 2020.
Amazon, Berlin (Germany), December 2019.
Pompeu Fabra University, Barcelona (Spain), November 2019.
Carlos III University, Madrid (Spain), November 2019.
Sharif University, Tehran (Iran), October 2019.
The Chinese University of Hong-Kong, Shenzhen (China), September 2019.
ECNU, Shanghai (China), September 2019.
Shanghai Jiao Tong University, Shanghai (China), September 2019.
University of Washington, Seattle (WA, USA), August 2019.
Turing Institute, London (UK), June 2019.
NeurIPS AI Ethics Workshop, Montreal (Canada), December 2018.
Cornell University, Ithaca (NY, USA), November 2018.
Facebook New York, New York (NY, USA), November 2018.
Carlos III University, Madrid (Spain), November 2018.
IIT Kharagpur, Kharagpur (India), November 2018.
DOOCN-XI @ CCS, Thessaloniki (Greece), September 2018.
Carlos III University, Madrid (Spain), May 2018.
EPFL, Lausanne (Switzerland), January 2018.
USC/ISI, Marina del Rey (CA, USA), December 2017.
Stanford University (CA, USA), December 2017.
MPI for the Physics of Complex Systems, Dresden (Germany), November 2017.
Kyoto University, Kyoto (Japan), November 2017.
NSF/FAST Workshop on ML for Discovery Science, Yerevan (Armenia), October 2017.
GESIS, Cologne (Germany), October 2017.
L'École Polytechnique, Paris (France), October 2017.
Allerton Conference, Allerton (IL, USA), October 2017.
CMU, Pittsburgh (PA, USA), October 2017.
Purdue University, West Lafayette (IN, USA), October 2017.

DALI 2017, Tenerife (Spain), April 2017.
SNOW @ WWW 2017 (Keynote), Perth (Australia), April 2017.
UCL, London (UK), February 2017.
University of Sydney, Sydney (Australia), February 2017.
ETH Risk Center, Zürich (Switzerland), January 2017.
Osaka University, Osaka (Japan), December 2016.
KAIST, Daejeon (South Korea), December 2016.
Universidad de Valencia, Valencia (Spain), December 2016.
MSR Asia (Theory Group), Beijing (China), November 2016.
New York University, New York (NY, USA), November 2016.
Universidad Pompeu Fabra, Barcelona (Spain), November 2016.
Tel Aviv University, Tel Aviv (Israel), November 2016.
Hebrew University of Jerusalem, Jerusalem (Israel), November 2016.
Klout, San Francisco (CA, USA), August 2016.
Yale University, Boston (MA, USA), July 2016.
SIAM Annual Meeting, Boston (MA, USA), July 2016.
German Academy of Sciences (Leopoldina), Saarbrücken (Germany), February 2016.
Universidad de El Salvador, San Salvador (El Salvador), December 2015.
University of Chile, Santiago de Chile (Chile), November 2015.
MIT, Boston (MA, USA), November 2015.
IQSS, Harvard University, Boston (MA, USA), November 2015.
CRCS, Harvard University, Boston (MA, USA), November 2015.
MPI for Intelligent Systems, Tübingen (Germany), July 2015.
UCSD, San Diego (CA, USA), May 2015.
University of British Columbia, Vancouver (Canada), April 2015.
IIT Kharagpur, Kharagpur (India), March 2015.
MPI for Software Systems, Saarbrücken (Germany), January 2015.
Princeton University, Princeton (NJ, USA), December 2014.
Bell Labs, Murray Hill (NJ, USA), December 2014.
Microsoft Research New York, New York (NY, USA), December 2014.
L'École Polytechnique, Paris (France), November 2014.
UAM, Madrid (Spain), November 2014.
Carlos III University, Madrid (Spain), November 2014.
Telefonica Research, Barcelona (Spain), November 2014.
Microsoft Research Silicon Valley, Mountainview (CA, USA), July 2014.
Tsinghua University, Beijing (China), June 2014.
Yahoo Research, Barcelona (Spain), June 2014.
USC/ISI, Los Angeles (CA, USA), May 2014.
EPFL, Lausanne (Switzerland), March 2014.
MPI for Software Systems, Kaiserslautern (Germany), March 2014.
Amazon, New York (NY, USA), February 2014.
Harvard, Cambridge (MA, USA), February 2014.
ETH, Zürich (Switzerland), February 2014.
Google Headquarters, Mountainview (CA, USA), January 2013.
Facebook Headquarters, Menlo Park (CA, USA), December 2012.
Stanford University, Stanford (CA, USA), September 2012.
Google Research, New York (NY, USA), January 2012.
IBM Research, Yorktown Heights (NY, USA), January 2012.
Carlos III University, Madrid (Spain), October 2011.
LinkedIn, Mountainview (CA, USA), July 2011.
Carlos III University, Madrid (Spain), September 2010.

TEACHING

- Advanced Course in Human-Centered Machine Learning:
Saarland University, Saarbrücken (Germany), Fall 2018.
- Seminar in Learning with Temporal Point Processes:
JetBrains Research, Saint Petersburg (Russia), Summer 2019.
- Seminar in Machine Learning for Dynamic Social Network Analysis:
IIT Hyderabad, Hyderabad (India), Fall 2017.
Carlos III University, Madrid (Spain), Spring 2017.
University of Sydney, Sydney (Australia), Winter 2017.
- Seminar in Social and Information Networks:
TU KL, Kaiserslautern (Germany), Fall 2015.
- Tutorial on Learning with Temporal Point Processes:
ICML, Stockholm (Sweden), 2018.
- Tutorial on Dynamic Social Network Analysis:
IJCAI, Melbourne (Australia), 2017.
- Tutorial on Diffusion in Social and Information Networks:
KDD, Sydney (Australia), 2015.
WWW, Florence (Italy), 2015.
- Invited lectures in Dynamic Social Network Analysis:
Autumn School in Machine Learning at International Black Sea University, Tbilisi (Georgia), 2019.
Data Science Summer School, Lviv (Ukraine), 2018.
Machine Learning Summer School (MLSS), Tübingen (Germany), 2017.
ETH/MPI Summer School on Learning Systems, Zürich (Switzerland), 2014.
Machine Learning Summer School (MLSS), Tübingen (Germany), 2013.
- Guest lecture in Social Network Analysis:
UCSD, San Diego (CA, USA), 2015.

SCIENTIFIC COMMUNITY ACTIVITIES

Workshop organization:

- ELLIS Workshop “Human-Centric Machine Learning”, Virtual, May 2021, with A. Weller, N. Oliver, P. Angelov, H. Lakkaraju, U. Bhatt and S. Tsirtsis.
- ICLR Workshop “Machine Learning for Preventing and Combating Pandemics”, Virtual, May 2021, with P. Xie, X. Liang, J. Leskovec, J. Wawira, J. Weiss, M. Fiterau, L. Celi and E. Xing.
- NeurIPS Workshop “Learning with Temporal Point Processes”, Vancouver (Canada), December 2019, with A. De, I. Valera, L. Song, Y. Liu and H. Zha.
- NeurIPS Workshop “Human-Centric Machine Learning”, Vancouver (Canada), December 2019, with N. Oliver, P. Angelov, I. Valera, H. Heidari, S. Chiappa, N. Kilbertus and A. Weller.
- WWW Workshop “Diffusion, Activity and Events in Networks: Models, Methods, and Applications”, Florence (Italy), May 2015, with L. Song and H. Zha.
- DALI Workshop “Networks – Processes and Causality”, La Palma (Spain), April 2015, with A. Krause and J. Peters.
- WSDM Workshop “Diffusion Networks and Cascade Analytics”, New York (NY, USA), February 2014, with P. Cui, F. Wang and H. Tong.
- Workshop “Networks – Processes and Causality”, Menorca (Spain), September 2012, with B. Schölkopf.

Summer school organization:

- Machine Learning Summer School (MLSS), Cadiz (Spain), May 2016.

Track Chair:

FAccT 2020.

Senior Program committee member or Area Chair for:

ICLR 2021.
NeurIPS 2016—2020.
WWW 2020—2021.
KDD 2019—2021.
WSDM 2018—2020.
AAAI 2020—2021.
IJCAI 2019—2021.
ICML 2018, 2021.
AISTATS 2018.
SDM 2018.

Program committee member for:

ICML 2013—2017, 2019—2020.
NIPS 2010, 2013—2015.
ICLR 2018—2020.
KDD 2014—2018.
WSDM 2013—2014, 2016—2017.
WWW 2014—2019.
ICWSM 2014—2018.
FAccT 2019, 2021.
ICDM 2018—2019.
DSAA 2019.
SDM 2015—2017.
AAAI 2016—2018.
AISTATS 2016—2017.
IJCAI 2015—2016.
CIKM 2014—2015.
COSN 2014.

Grant reviewing for:

European Research Council (ERC), Helmholtz-Gemeinschaft Deutscher Forschungszentren, Engineering and Physical Sciences Research Council (EPSRC), The Fund for Scientific Research-FNRS (F.R.S.-FNRS), The Netherlands Organisation for Scientific Research (NWO), Foundation for Polish Science, Polish National Science Centre, Czech Science Foundation, Austrian Academy of Sciences, Israeli Ministry of Science and Technology, New Zealand Government, Portuguese Government.

Article reviewing for:

Journal of Machine Learning Research (JMLR), Machine Learning, Transaction on Knowledge Discovery from Data (TKDD), IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), IEEE Transactions on Knowledge and Data Engineering (TKDE), IEEE Transactions on Signal Processing (TSP), IEEE Transactions on Network Science and Engineering (TNSE), Nature Human Behavior, Science Advances, PLOS One, Information and Inference, Random Structures and Algorithms, The Journal of Web Science, KAIS, ACM-SIAM Symposium on Discrete Algorithms (SODA17).

Session chair:

KDD 2019, WWW 2018, SDM 2017, NIPS 2016, WWW 2015, SDM 2015, WSDM 2014.

Volunteer:

NIPS 2011, ICML 2011, KDD 2010.

ADVISING

Postdocs:

Ali Zarezade, 2020.
Abir De, 2018 – 2019.
Isabel Valera, 2015 – 2017.

Ph.D. students:

Nastaran Okati, 2020 – now.
Stratis Tsirtis, 2019 – now.
Utkarsh Upadhyay, 2015 – 2019.
Behzad Tabibian (co-advised with B. Schölkopf), 2015 – 2019.
Bilal Zafar (co-advised with K. Gummadi), 2015 – 2018.

Visiting Ph.D. students:

Paramita Koley, Spring 2019.
William Trouleau, Spring 2019.
Elahe Ghalebi, Fall 2018.
Dionysis Manousakas, Summer 2018.
Bidisha Samanta, Fall 2017.
Emaad Manzoor, Summer 2017.
Sandeep Soni, Summer 2017.
Jooyeon Kim, Summer 2017.
Michal Lukasik, Fall 2016.
Tomasz Kusmierczyk, Fall 2016.
Abir De, Summer 2016.
Ali Zarezade, Spring 2016.
Mehrdad Farajtabar, Summer 2015.
Charalampos Mavroforakis, Summer 2015.

Interns:

Sadegh Mahdavi, Summer 2020.
Parishad Behnamghader, Summer 2020.
Vipul Bajaj, Summer 2020.
Vahid Balazadeh, Summer 2019.
Moein Khajehnejad (co-advised with Adish Singla), Spring 2019.
Pandhre Supriya Baswaraj, Spring 2019.
Rafael Goncalves, Fall 2018.
Khashayar Gatmiry, Summer 2018.
Lars Lorch, Summer 2018.
Junaid Ali, Spring 2017.
Negar Foroutan, Spring 2017.
Joel Castellon, Summer 2016.
Erfan Tavakoli, Summer 2015.
Mohammad Reza Karimi, Summer 2015.
Arman Sepehr, Winter 2015.
Mohammad Zaman, Summer 2014.
Hadi Daneshmand, Fall 2013.
Omid Askari, Fall 2013.
Isabel Valera, Summer 2013.

THESIS
COMMITTEES

Homayun Afrabandpey (Ph.D. Thesis; Aalto University), 2020.
Bilal Zafar (Ph.D. Thesis; MPI-SWS), 2019.
Brunella Spinelli (Ph.D. Thesis; EPFL), 2018.
Nir Rosenfeld (Ph.D. Thesis; Hebrew University in Jerusalem), 2017.
Massil Achab (Ph.D. Thesis; L'École Polytechnique), 2017.
Remi Lemonnier (Ph.D. Thesis; ENS Cachan), 2016.

Sepideh Saran (Master Thesis; MPI-SWS), 2016.

LANGUAGE SKILLS Spanish (native), Galician (native), English (fluent), German (intermediate).