

Caroline Uhler

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Appointments

06/2018–	Henry L. and Grace Doherty Associate Professor, EECS, MIT
11/2015–	Henry L. and Grace Doherty Assistant Professor, EECS, MIT
11/2011– 11/2015	Assistant Professor, IST Austria
08/2013 – 12/2013	Research Fellow, Semester program: Theoretical Foundations of Big Data Analysis, Simons Institute, UC Berkeley
01/2012 – 07/2012	Postdoctoral Researcher, Seminar for Statistics, Department of Mathematics, ETH Zurich
09/2011 – 11/2011	Postdoctoral Researcher, Annual program: Mathematics of Information, Institute of Mathematics and its Applications, U. of Minnesota

Education

University of California at Berkeley	Ph.D.	Statistics	2011
Haas School of Business, UC Berkeley	MOT	Management of Technology Degree	2011
University of Zurich (Switzerland)	M.Ed.	High School Math Education	2007
University of Zurich (Switzerland)	M.Sc.	Mathematics	2006
University of Zurich (Switzerland)	B.Sc.	Biology	2006
University of Zurich (Switzerland)	B.Sc.	Mathematics	2004

Awards and Distinctions

2018	Joseph A. Martore Award for Exceptional Contributions to Education, MIT
2017	Sloan Research Fellowship
2017	NSF Career Award
2016	Charles E. Reed Faculty Initiative Fund Award
2015	Doherty Professorship in Ocean Utilization

2015	START Award from the Austrian Science Fund (declined due to move to MIT)
2015	Sofja Kovalevskaja Award (1.6M Euro for 5 years, declined due to move to MIT)
2014	Elected Member of the International Statistical Institute (ISI)
2013	Research Fellowship from the Simons Institute at UC Berkeley for the program “Theoretical Foundations of Big Data Analysis” during Fall 2013
2013	Golden Chalk Award for excellence in teaching from IST Austria
2010 – 2011	Janggen-Poehn Fellowship (full tuition and stipend 2010-2011)
2007 – 2010	International Fulbright Science and Technology Award (full tuition and stipend, 30 fellows per year worldwide)
2007	Best Student Award of the University of Zurich (highest GPA)

Main Research Interests

Mathematical statistics (algebraic statistics, multivariate analysis, graphical models, causal inference, maximum likelihood estimation); *Mathematical and computational biology* (chromosome packing models, inference of gene regulatory networks); *Convex optimization*; *Applied algebraic geometry*;

Workshop and Conference Organization

Jul 21-22, 2019	Chair of SIAM Conference on Applied Algebraic Geometry	Bern, Switzerland
Sep 21-22, 2017	ONR Kickoff Meeting: Predictive and Causal Modeling - Bridging the Gap	MIT
Apr 16-22, 2017	Workshop on Algebraic Statistics	Oberwolfach
07/25-08/19, 2016	Short thematic program: Statistical Causal Inference and Applications to Genetics	CRM, Montréal
Jun 8-11, 2015	Algebraic Statistics 2015	University of Genoa, Italy
Aug 25-29, 2014	Prague Stochastics 2014	Academy of Sciences, CZ
Jul 14-17, 2014	Algebraic Statistics Workshop	NIMS, Daejeon, South Korea
Sep 28-30, 2012	Algebraic Statistics in Europe	IST Austria

Minisymposium Organization

May 22-25, 2017	SIAM Conference on Applied Algebraic Geometry	Georgia Tech
07/30-08/04, 2016	Topic contributed paper session sponsored by IMS	JSM, Chicago

Aug 3-7, 2015	SIAM Conference on Applied Algebraic Geometry	Daejeon, Korea
Jul 26-31, 2015	60th World Statistics Congress – ISI2015	Rio, Brazil
Aug 1-4, 2013	SIAM Conference on Applied Algebraic Geometry	Colorado State U.

Academic Service

2018 - 2020	Program Director, SIAM Activity Group on Algebraic Geometry
2017 - 2020	IMS representative, Joint Committee on Women in the Mathematical Sciences
2017	International hiring committee for research group leader at MPI Leipzig
2017	Program committee, <i>ISSAC</i>
2015 -	Program committee, <i>ICML</i>
2014 -	Editorial board, <i>Journal of Algebraic Statistics</i>
2011 -	Reviewer for most major Statistics journals, e.g. <i>Ann. Stat.</i> , <i>J. Am. Stat. Assoc.</i> , <i>J. Mach. Learn. Res.</i> , <i>Bernoulli</i> , <i>Electron. J. Stat.</i> ; Reviewer for <i>ICML</i> ;

Outreach

2015 -	Judge for the Intel / Regeneron Science Talent Search, the most prestigious science research competition for high school seniors in the US
2001 - 2006	Mathematics teacher at secondary school and high school in Switzerland
2003 - 2007	Co-founder and manager of Thailand-Volunteering Association for Swiss students to teach Mathematics and English in Nam Rong, Thailand

Teaching

Fall '16, '17, '18	Statistics, Computation, and Applications (course IDS.012 / 6.419 / IDS.131 / 6.439)	MIT
06/2018	1-week summer school on Graphical Models	ETH Zurich
Spring '17	Graphical models: A Geometric, Algebraic, and Combinatorial Perspective (course 6.248 / IDS.S21)	MIT
Summer '16	DataScienceX (Online MIT Professional Education Course)	MIT
Spring '16	Algebraic Techniques and Semidefinite Optimization (course 6.256)	MIT
Spring '15	Modeling: core PhD course	IST Austria
Spring '13, '14	Applied Statistics: core PhD course	IST Austria
Spring '14, '15	Convex Optimization: advanced PhD course	IST Austria
06/2013	1-week summer school on Algebraic Statistics	Nordfjordeid, Norway

2006 - 2007	Graduate Student Instructor, Advanced Algebra	University of Zurich
2001 - 2006	High School and Middle School Teacher	Switzerland

Students and Postdocs

Graduate students: R. Agrawal, A. Belyaeva, A. Radhakrishnan, Y. Wang, K. Dai Yang

MEng students: A. Soylemezoglu, L. J. Sun

UROP students: A. Katcoff, C. Squires

Postdocs: K. Kubjas, E. Perrone, E. Robeva

Former Postdocs: A. Klimova (now at Dresden University of Technology), A. Martin del Campo (now at CIMAT, Guanajuato), F. Mohammadi (now at Bristol University), P. Norén (now at North Carolina State University), L. Solus (now at KTH Stockholm)

Former UROPs: M. Duran (now Associate Computational Biologist at the Broad Institute of MIT and Harvard), M. T. Savran (now at Akamai Technologies), A. C. Soylemezoglu (now a Masters student at MIT)

Publications

- 46 ROBEVA, E., STURMFELS, B., TRAN, N. AND UHLER, C., “Maximum likelihood estimation for totally positive log-concave densities”, submitted, preprint available at <https://arxiv.org/abs/1806.10120>.
- 45 RICHARDS, D. AND UHLER, C., “Loading monotonicity of weighted Premiums, and total positivity properties of weight functions”, submitted, preprint available at <https://arxiv.org/abs/1806.07957>.
- 44 WANG, Y., SEGARRA, S. AND UHLER, C., “High-dimensional joint estimation of multiple directed Gaussian graphical models”, submitted, preprint available at <https://arxiv.org/abs/1804.00778>.
- 43 PERRONE, E., SOLUS, L. AND UHLER, C., “Geometry of discrete copulas”, submitted, preprint available at <https://arxiv.org/abs/1802.06969>.
- 42 WANG, Y., SQUIRES, C., BELYAEVA, A. AND UHLER, C., “Direct estimation of differences in causal graphs”, submitted, preprint available at <https://arxiv.org/abs/1802.05631>.
- 41 RADHAKRISHNAN, A., DURHAM, C., SOYLEMEZOGLU, A. AND UHLER, C., “PatchNet: Interpretable neural networks for image classification”, submitted, preprint available at <https://arxiv.org/abs/1705.08078>.

- 40 SOLUS, L., WANG, Y., MATEJOVICOVA, L. AND UHLER, C., “Consistency guarantees for permutation-based causal inference algorithms”, submitted, preprint available at <http://arxiv.org/abs/1702.03530>.
- 39 ROBEVA, E., STURMFELS, B. AND UHLER, C., “Geometry of log-concave density estimation”, to appear in *Discrete & Computational Geometry*, preprint available at <http://arxiv.org/abs/1704.01910>.
- 38 AGRAWAL, R., BRODERICK, T. AND UHLER, C., “Minimal I-MAP MCMC for scalable structure discovery in causal DAG models”, to appear in *Proceedings of Machine Learning Research (ICML)*, preprint available at <https://arxiv.org/abs/1803.05554>.
- 37 YANG, K. D., KATCOFF, A. AND UHLER, C., “Characterizing and learning equivalence classes of causal DAGs under interventions”, to appear in *Proceedings of Machine Learning Research (ICML)*, preprint available at <https://arxiv.org/abs/1802.06310>.
- 36 LAURITZEN, S., UHLER, C. AND ZWIERNIK, P., “Maximum likelihood estimation in Gaussian models under total positivity”, to appear in *Annals of Statistics*, preprint available at <http://arxiv.org/abs/1702.04031>.
- 35 UHLER, C. AND RICHARDS, D., “Generalized Fréchet bounds for cell entries in multidimensional contingency tables”, to appear in *Journal of Algebraic Statistics* (special issue for Stephen E. Fienberg), preprint available at <https://arxiv.org/abs/1708.02708>.
- 34 UHLER, C., “Gaussian graphical models: An algebraic and geometric perspective”, to appear as a book chapter in *Handbook of Graphical Models*, preprint available at <https://arxiv.org/abs/1707.04345>.
- 33 RADHAKRISHNAN, A., SOLUS, L. AND UHLER, C., “Counting Markov equivalence classes for DAG models on trees”, *Discrete Applied Mathematics* 244 (2018), pp. 170–185.
- 32 RASKUTTI, G. AND UHLER, C., “Learning directed acyclic graphs based on sparsest permutations”, *Stat* 7 (2018), e183.
- 31 UHLER, C. AND SHIVASHANKAR, G.V., “Nuclear mechanopathology and cancer diagnosis”, *Trends in Cancer* 4 (2018), pp. 320–331.
- 30 MOHAMMADI, F., UHLER, C., WANG, C. AND YU, J., “Generalized permutohedra from probabilistic graphical models”, *SIAM Journal on Discrete Mathematics* 32 (2018), pp. 64–93.
- 29 UHLER, C., LENKOSKI, A. AND RICHARDS, D., “Exact formulas for the normalizing constants of Wishart distributions for graphical models”, *Annals of Statistics* 46 (2018), pp. 90–118.
- 28 WANG, Y., SOLUS, L., YANG, K. D. AND UHLER, C., “Permutation-based causal inference algorithms with interventions”, *Neural Information Processing Systems* 31 (2017).

- 27 RADHAKRISHNAN, A., DAMODARAN, D., SOYLEMEZOGLU, A. C., UHLER, C. AND SHIVASHANKAR, G. V., “Machine learning for nuclear mechano-morphometric biomarkers in cancer diagnosis”, *Scientific Reports* 7 (2017), article nr. 17946.
- 26 BELYAEVA, A., VENKATACHALAPATHY, S., NAGARAJAN, M., SHIVASHANKAR, G. V. AND UHLER, C., “Network analysis identifies chromosome intermingling regions as regulatory hotspots for transcription”, *Proceedings of the National Academy of Sciences, U.S.A* 114 (2017), pp. 13714–13719.
- 25 UHLER, C. AND SHIVASHANKAR, G.V., “The regulation of genome organization and gene expression by nuclear mechanotransduction”, *Nature Reviews Molecular Cell Biology*, 18 (2017), pp. 717–727.
- 24 UHLER, C. AND SHIVASHANKAR, G.V., “Chromosome intermingling: Mechanical hotspots for genome regulation”, *Trends in Cell Biology*, 27 (2017), pp. 810–819.
- 23 ZWIERNIK, P., UHLER, C. AND RICHARDS, D., “Maximum likelihood estimation for linear Gaussian covariance models”, *Journal of the Royal Statistical Society Series B*, 79 (2017), pp. 1269–1292.
- 22 WANG, Y., NAGARAJAN, M., UHLER, C. AND SHIVASHANKAR, G.V., “Orientation and repositioning of chromosomes correlate with cell geometry-dependent gene expression”, *Molecular Biology of the Cell*, 28 (2017), pp. 1997–2009.
- 21 RADHAKRISHNAN, A., SOLUS, L. AND UHLER, C., “Counting Markov equivalence classes by number of immoralities”, *Proceedings of the Thirty-Third Conference on Uncertainty in Artificial Intelligence (UAI)*, (2017).
- 20 FALLAT, S., LAURITZEN, S., SADEGHI, K., UHLER, C., WERMUTH, N. AND ZWIERNIK, P., “Total positivity in Markov structures”, *Annals of Statistics*, 45 (2017), pp. 1152–1184.
- 19 MARTIN DEL CAMPO, A., CEPEDA, S. AND UHLER, C., “Exact goodness-of-fit testing for the Ising model”, *Scandinavian Journal of Statistics*, 44 (2017), pp. 285–306.
- 18 SOLUS, L., UHLER, C. AND YOSHIDA, R., “Extremal positive semidefinite matrices for graphs without K_5 minors”, *Linear Algebra and its Applications*, 509 (2016), pp. 247–275.
- 17 UHLER, C. AND SHIVASHANKAR, G.V., “Geometric control and modeling of genome reprogramming”, *BioArchitecture*, 6 (2016), pp. 76–84.
- 16 MICHALEK, M., STURMFELS, B., UHLER, C. AND ZWIERNIK, P., “Exponential varieties”, *Proceedings of the London Mathematical Society*, 112 (2016), pp. 27–56.
- 15 KLIMOVA, A., UHLER, C. AND RUDAS, T., “Faithfulness and learning of hypergraphs from discrete distributions”, *Journal of Computational Statistics and Data Analysis*, 87 (2015), pp. 57–72.

- 14 LIN, S., UHLER, C., STURMFELS, B. AND BÜHLMANN, P., “Hypersurfaces and their singularities in partial correlation testing”, *Foundations of Computational Mathematics*, 14 (2014), pp. 1079–1116.
- 13 YU, F., RYBAR, M., UHLER, C. AND FIENBERG, S. E., “Differentially private logistic regression for detecting multiple-SNP association in GWAS databases”, *Privacy in Statistical Databases*, 8744 (2014), pp. 170–184.
- 12 IGLESIAS-HAM, M., KERBER, M. AND UHLER, C., “Sphere packing with limited overlap”, *Proc. 26th Canadian Conference on Computational Geometry, Halifax, Nova Scotia* (2014), pp. 155–161.
- 11 YU, F., FIENBERG, S. E., SLAVKOVIĆ, A. AND UHLER, C., “Scalable privacy-preserving data sharing methodology for genome-wide association studies”, *Journal of Biomedical Informatics*, 50 (2014), pp. 133–141.
- 10 UHLER, C. AND WRIGHT, S. J., “Packing ellipsoids with overlap”, *SIAM Review*, 55 (2013), pp. 671–706. (selected as Research Spotlight).
- 9 UHLER, C., RASKUTTI, G., BÜHLMANN, P. AND YU, B., “Geometry of faithfulness assumption in causal inference”, *Annals of Statistics* 41 (2013), pp. 436–463.
- 8 UHLER, C., FIENBERG, S. E. AND SLAVKOVIĆ, A., “Privacy-preserving data sharing for genome-wide association studies”, *Journal of Privacy and Confidentiality* 5 (2013), pp. 137–166.
- 7 UHLER, C., “Geometry of maximum likelihood estimation in Gaussian graphical models”, *Annals of Statistics* 40 (2012), pp. 238–261.
- 6 FIENBERG, S. E. SLAVKOVIĆ, A. AND UHLER, C., “Privacy preserving GWAS data sharing”, *Proc. 11th IEEE International Conference on Data Mining, Vancouver, Canada* (2011), pp. 628–635.
- 5 MALASPINAS, A. AND UHLER, C., “Detecting epistasis via Markov bases”, *Journal of Algebraic Statistics* 2 (2011), pp. 36–53.
- 4 STURMFELS, B. AND UHLER, C., “Multivariate Gaussians, semidefinite matrix completion and convex algebraic geometry”, *Annals of the Institute of Statistical Mathematics* 62 (2010), pp. 603–638.
- 3 EVANS, S. N., STURMFELS, B. AND UHLER, C., “Commuting birth-and-death processes”, *Annals of Applied Probability* 20 (2010), pp. 238–266.
- 2 UHLER, C., “Mastitis in dairy production: Estimation of sensitivity, specificity and disease prevalence in the absence of a gold standard,” *Journal of Agricultural, Biological, and Environmental Statistics* 14 (2009), pp. 79–98.
- 1 GREEN, R. E., MALASPINAS, A., KRAUSE, J., BRIGGS, A. W., JOHNSON, P. L., UHLER, C., MEYER, M., GOOD, J. M., MARICIC, T., STENZEL, U., PRÜFER, K., SIEBAUER, M., BURBANO, H. A., RONAN, M., ROTHBERG, J. M., EGHOLM, M., RUDAN, P., BRAJKOVIĆ, D., KUĆAN, Z., GUSIĆ, I., WIKSTRÖM, M., LAAKKONEN, L., KELSO, J., SLATKIN, M., AND PÄÄBO, S., “A complete Neandertal

mitochondrial genome sequence determined by high-throughput sequencing”, *Cell* 134 (2008), pp. 416–426.

Plenary / Keynote Talks

- 07/2019 41st Conference on Stochastic Processes and their Applications. Northwestern University.
- 06/2018 11th Annual Meeting of the Society for Financial Econometrics (SoFiE). Lugano.
- 08/2017 SIAM Conference on Applied Algebraic Geometry. Georgia Tech University.
- 08/2016 5th International Conference on Continuous Optimization (ICCOPT). Tokyo.
- 07/2015 Current Trends on Gröbner Bases. Osaka, Japan.
- 06/2015 Conference on Effective Methods in Algebraic Geometry (MEGA). Trento.
- 06/2012 Algebraic Statistics in the Alleghenies. Penn State University

Other Invited Talks

- 06/2018 Colloquium, Department of Biosystems Science and Engineering, ETH Zurich.
- 05/2018 Bay Area Optimization Meeting, Stanford.
- 04/2018 EMBO Workshop on Nuclear Mechanogenomics, Singapore.
- 04/2018 Symposium on Statistics in Complex Systems, The Royal Danish Academy of Sciences and Letters, Copenhagen
- 03/2018 AI & Digital Health in Translational Medicine & Clinical Trials Summit, MIT.
- 02/2018 Colloquium, Department of Operations Research and Financial Engineering, Princeton University.
- 02/2018 Information Theory and Applications Workshop, San Diego.
- 02/2018 Brummer & Partners MathDataLab Colloquium, KTH Royal Institute of Technology, Stockholm.
- 12/2017 10th International Conference on Computational and Methodological Statistics (CMStatistics 2017), London UK.
- 12/2017 NIPS Workshop on Advances in Modeling and Learning Interactions from Complex Data, Los Angeles, CA.
- 11/2017 Statistics Colloquium. Harvard University.
- 10/2017 Colloquium. Naval Postgraduate School, Monterey.
- 10/2017 Beyond Convexity: Emerging Challenges in Data Science. Oaxaca.
- 07/2017 European Meeting of Statisticians. Helsinki.
- 06/2017 Workshop on Algebraic and Combinatorial Phylogenetics. Barcelona.
- 06/2017 Seminar. Seminar for Statistics, ETH Zurich.

06/2017 Workshop on High-Dimensional Time Series in Macroeconomics and Finance. Institute for Advanced Studies, Vienna.

05/2017 Seminar. Department of Biosystems Science and Engineering, ETH Zurich.

05/2017 SIAM Conference on Optimization. Vancouver.

04/2017 Special Seminar. Max Planck Institute for Mathematics in the Sciences, Leipzig.

03/2017 Statistics Seminar. University of Washington.

02/2017 Women in Data Science (WiDS). Boston, MA.

01/2017 Statistics Seminar. Universitat Pompeu Fabra.

11/2016 Data Science Colloquium. Brown University.

10/2016 Mathematics Seminar. National University of Singapore.

10/2016 Conference on Conditional Independence Structures and Extremes, Munich.

10/2016 PICS Symposium “Emerging Paradigmes in Scientific Discovery”, UPenn.

10/2016 Computational and Systems Biology Retreat. MIT.

08/2016 Joint Statistical Meetings (JSM). Chicago.

07/2016 SIAM Annual Meeting. Boston.

07/2016 9th World Congress on Probability and Statistics. Toronto.

06/2016 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting. Hong Kong.

05/2016 MBI-IFOM Joint Retreat. Milano.

05/2016 Symposium on Mathematical & Computational Biology. UPenn.

03/2016 Symposium. LabLinks, Gene Circuits, Broad Institute, Boston.

03/2016 Scientific Computing Seminar. Division of Applied Mathematics, Brown U.

02/2016 Biophysical Society Meeting. Los Angeles.

02/2016 Seminar. Department of Statistics, University of Chicago.

02/2016 Seminar. Models, Inference and Algorithms, Broad Institute, Boston.

01/2016 Workshop on Optimization and Parsimonious Modeling. IMA, Minneapolis.

01/2016 Meeting on Information Processing in Biological Systems. ICTS, Bangalore.

12/2015 Seminar. London Business School.

12/2015 8th Intl Conference on Computational and Methodological Statistics. London.

12/2015 Seminar. Operations Research and Financial Engineering, Princeton University.

11/2015 Algebra Seminar. School of Mathematics, Georgia Tech.

11/2015 Colloquium. College of Sciences and Mathematics, Auburn University.

11/2015 Colloquium. School of Mathematics, Georgia Tech.

08/2015 Seminar. Mechanobiology Institute, National University of Singapore.

08/2015 SIAM Conference on Applied Algebraic Geometry. Daejeon, Korea

07/2015 60th World Statistics Congress – ISI2015. Rio de Janeiro, Brazil.

07/2015 Current Trends on Gröbner Bases. Osaka, Japan.

06/2015 Conference on Effective Methods in Algebraic Geometry (MEGA). Trento.
 05/2015 Workshop on NonLinear Algebra. Berlin.
 03/2015 Seminar. Department of Electrical Engineering and Computer Science, MIT.
 03/2015 Seminar. Department of Mathematics, EPFL.
 03/2015 Seminar. Department of Statistics, Université Libre de Bruxelles.
 02/2015 Seminar. Department of Mathematics, MIT.
 02/2015 Seminar. Department of Computing and Mathematical Sciences, Caltech.
 01/2015 Colloquium. Department of Mathematics, UC Berkeley.
 01/2015 Seminar. Department of Mathematics, UC San Diego.
 01/2015 Seminar. Department of Statistics, Columbia University.
 12/2014 Big Data Reunion Workshop. Simons Institute, UC Berkeley.
 11/2014 Seminar. Department of Statistics, University of Oxford.
 11/2014 Seminar. Department of Statistics, Columbia University.
 11/2014 Seminar. Department of Computing and Mathematical Sciences, Caltech.
 10/2014 AMS Fall Western Sectional Meeting. San Francisco State University.
 10/2014 Seminar. Computational Algebraic Geometry. UC Berkeley.
 10/2014 Seminar. Department of Statistics, University of Pennsylvania.
 08/2014 21st International Conference on Computational Statistics. Geneva, Switzerland.
 07/2014 Workshop on Algebraic Statistics. NIMS, Daejeon, South Korea.
 07/2014 Australian Statistical Conference. Sydney, Australia.
 06/2014 Kreisky Forum. Vienna, Austria.
 06/2014 Workshop on Simplicity and Causal Discovery. Carnegie Mellon University.
 05/2014 Series on Systems, Information, Learning and Optimization. Wisconsin
 Institute of Discovery, University of Wisconsin - Madison.
 05/2014 Algebraic Statistics Meeting. IIT Chicago.
 05/2014 Applied Algebra Days. University of Wisconsin-Madison.
 05/2014 Statistics Seminar. Statistical Laboratory, University of Cambridge.
 03/2014 Seminar. Department of Mathematics, Comenius University, Bratislava.
 03/2014 Conference on Applications of Real Algebraic Geometry. Aalto U., Finland.
 01/2014 Discrete Mathematics and Optimization Seminar. Alpen-Adria U., Klagenfurt.
 11/2013 Research Seminar. Cell Biology, UC Berkeley.
 11/2013 Workshop on Graphical Models. Ruprecht-Karls-Universität Heidelberg.
 08/2013 Seminar. Institute for Infocomm Research, Singapore.
 08/2013 Seminar. Mechanobiology Institute, National University of Singapore.
 08/2013 SIAM Conference on Applied Algebraic Geometry. Colorado State University.
 07/2013 International Conference on Continuous Optimization. Lisbon, Portugal.

07/2013 European Meeting of Statisticians. Budapest, Hungary.
 06/2013 19th Conference on Applications of Computer Algebra. Malaga, Spain.
 05/2013 Computer Science Seminar. IST Austria.
 05/2013 Statistics Seminar. Medical University of Vienna
 04/2013 Seminar on Complex and Stochastic Systems. Physics Dep., U. of Vienna.
 03/2013 Colloquium. Department of Mathematics, University of Vienna
 03/2013 Wien - Linz Workshop on Algebraic Geometry. Wachau, Austria.
 02/2013 Seminar. Department of Statistics, Harvard University.
 02/2013 Algebraic Statistics Seminar. UC Berkeley.
 02/2013 Seminar. Department of Statistics, Stanford University.
 01/2013 Seminar. Department of Statistics, University of Wisconsin - Madison.
 10/2012 Biomathematics Seminar. University of Vienna.
 09/2012 Seminar. Computational Science Center, University of Vienna.
 08/2012 21st International Symposium on Mathematical Programming. Berlin.
 07/2012 Series on Systems, Information, Learning and Optimization. Wisconsin
 Institute of Discovery, University of Wisconsin - Madison.
 06/2012 Seminar. Department of Biosystems, Science and Engineering, ETH Zurich.
 06/2012 Research Seminar. Seminar for Statistics, ETH Zurich.
 05/2012 Computer Algebra Seminar. Research Inst. for Symbolic Computation, Linz.
 05/2012 Institute for Statistics and Operations Research Colloquium. U. of Vienna.
 04/2012 Computational Algebra Seminar. UC Berkeley.
 02/2012 Optimization & Applications Seminar. Institute for Operations Research,
 ETH Zurich.
 10/2011 IMA Postdoc Seminar. University of Minnesota.
 10/2011 SIAM Conference on Applied Algebraic Geometry, North Carolina State U.
 06/2011 CDI Meeting: Integrating Statistics and Computational Approaches to Data
 Privacy, Penn State University.
 04/2011 Seminar on Computational Topology. Stanford University.
 12/2010 Research Seminar in Statistics. ETH Zurich.
 09/2010 Statistics and Genomics Seminar. UC Berkeley.
 06/2010 The Second CREST-SBM International Conference on Harmony of Groebner
 Bases and the Modern Industrial Society. Osaka, Japan.
 03/2010 AMS Sectional Meeting on Advances in Algebraic Statistics. Lexington, KY.
 03/2010 Seminar on Convex Algebraic Geometry, UC Berkeley.
 07/2009 Second de Brun Workshop on Computational Algebra. Galway, Ireland.
 06/2009 Group meeting of Monique Laurent. CWI Amsterdam.

06/2009 EIDMA Seminar on Combinatorial Theory. Technische Universiteit Eindhoven.

Additional Conference Attendance

05/2009 FRG Meeting: Semidefinite Optimization & Convex Algebraic Geometry. MIT.
04/2009 Seminar on Discrete Mathematics. UC Berkeley.
12/2008 Workshop on Algebraic Statistics. MSRI, Berkeley.
10/2008 Seminar on Discrete Mathematics. UC Berkeley.
08/2008 Seminar. Department of Biosystems, Science and Engineering. ETH Zurich.
07/2008 Seminar on Model Selection. Technische Universität Berlin.
10/2014 AIM Workshop on “Positivity, graphical models, and modeling of complex multivariate dependencies”. AIM Conference Center, Palo Alto.
11/2013 The Statistics 2013 Capstone Event: Workshop about the Future of the Statistical Sciences. Royal Statistical Society, London (attendance by invitation only).
06/2013 4D Nucleome Workshop. Institute of Molecular Biology, Mainz, Germany.
12/2011 AIM Workshop on “Singular Learning Theory: Connecting Algebraic Geometry and Model Selection in Statistics”. AIM Conference Center, Palo Alto.
10/2010 AIM Workshop on “Parameter Identification in Graphical Models”. AIM Conference Center, Palo Alto.
09/2008 Opening Workshop on Algebraic Methods in Systems Biology and Statistics. SAMSI, Research Triangle Park, NC.
07/2008 XX International Congress of Genetics. Berlin, Germany.
06/2008 LMS Durham Symposium on Mathematical Aspects of Graphical Models. Durham, UK
03/2007 IMA Workshop on Applications in Biology, Dynamics and Statistics. University of Minnesota.
06/2006 Summer School on Algebraic Statistics, Tropical Geometry and Computational Biology. Nordfjordeid, Norway.