Curriculum Vitae Nicholas Eriksson

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Date of Birth: 1978 (Montana, USA) Date of CV: June 2016

Education/Employment

2014 -	Data Scientist, Coursera, Mountain View, CA
2009 - 2014	Principal Scientist, Statistical Genetics, 23andMe, Inc., Mountain View, CA
2008 - 2009	Scientist, Statistical Genetics, 23andMe, Inc., Mountain View, CA
2007 - 2008	Visiting Assistant Professor, Department of Statistics,
	University of Chicago, Chicago, IL
2006 - 2007	NSF Postdoctoral Research Fellow, Department of Statistics,
	Stanford University, Stanford, CA
2006 - 2007	Postdoctoral Fellow, Mathematical Sciences Research Institute, Berkeley, CA
2006 Ph.D.	Mathematics, University of California, Berkeley (advisor: Bernd Sturmfels)
2006	Designated Emphasis in Computational and Genomic Biology,
	University of California, Berkeley
2001 S.B.	Mathematics, Massachusetts Institute of Technology, Cambridge, MA

Scientific/Academic honors and grants

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20	13 - 2014	Principal Investigator, NIH Grant 2R44HG006981-02, Development of a web-based
		database and research engine for genetic discovery (\$805,975)
20	12 - 2013	Principal Investigator, NIH Grant 1R43HG006981-01, Development of a web-based
		database and research engine for genetic discovery (\$232,602)
20	12 - 2013	Principal Investigator, MJFF Research Grant, Using external research experts to mine
		the 23andMe Parkinson's database (\$26,400)
20	06 - 2008	National Science Foundation Postdoctoral Research Fellowship in the Mathematical
		Sciences
20	06	Bernard Friedman Prize, University of California, Berkeley, top thesis in applied math-
		ematics
20	01 - 2004	National Defense Science and Engineering Graduate Fellowship
20	01	National Science Foundation Graduate Research Fellowship (Declined)
19	97	Third place, Westinghouse Science Talent Search, q-series, elliptic curves, and odd
		values of the partition function.
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Research interests and skills

- Statistics, machine learning and discrete mathematics
- Genomics and human genetics, particularly the genetics of complex traits
- Cancer tumor progression and HIV population evolution
- Programming: Python, R, SQL

Publications

Peer-reviewed and submitted articles (40 total, 18 as first/last/unordered author)

- 2016 40. Meta-analysis of 375,000 individuals identifies 38 susceptibility loci for migraine. P. Gormley, V. Anttila, B.S. Winsvold, P. Palta, T. Esko, T.H. Pers, K-H. Farh, E. Cuenca-Leon, M. Muona, N.A. Furlotte, T. Kurth, A. Ingason, G. McMahon, L. Ligthart, G.M. Terwindt, M. Kallela, T.M. Freilinger, C. Ran, S.G. Gordon, A.H. Stam, S. Steinberg, G. Borck, M. Koiranen, L. Quaye, H.H.H. Adams, T. Lehtimki, A-P. Sarin, J. Wedenoja, D.A. Hinds, J.E. Buring, M. Schrks, P.M. Ridker, M.G. Hrafnsdottir, H. Stefansson, S.M. Ring, J-J. Hottenga, B.W.J.H. Penninx, M. Frkkil, V. Artto, M. Kaunisto, S. Vepslinen, R. Malik, A.C. Heath, P.A.F. Madden, N.G. Martin, G.W. Montgomery, M.I. Kurki, M. Kals, R. Mgi, K. Prn, E. Hmlinen, H. Huang, A.E. Byrnes, L. Franke, J. Huang, E. Stergiakouli, P.H. Lee, C. Sandor, C. Webber, Z. Cader, B. Muller-Myhsok, S. Schreiber, T. Meitinger, J.G. Eriksson, V. Salomaa, K. Heikkil, E. Loehrer, A.G. Uitterlinden, A. Hofman, C.M. van Duijn, L. Cherkas, L.M. Pedersen, A. Stubhaug, C.S. Nielsen, M. Mnnikk, E. Mihailov, L. Milani, H. Gbel, A-L. Esserlind, A.F. Christensen, T.F. Hansen, T. Werge, V. Anttila, V. Artto, A.C. Belin, D.I. Boomsma, S. Brte, L. Cherkas, A.F. Christensen, B. Cormand, E. Cuenca-Leon, G.D. Smith, M. Dichgans, C. van Duijn, E. Eising, T. Esko, A-L. Esserlind, M. Ferrari, R.R Frants, T. M Freilinger, L. Griffiths, E. Hamalainen, T.F. Hansen, M. Hiekkala, M.A. Ikram, A. Ingason, M-R. Jrvelin, R. Kajanne, M. Kallela, J. Kaprio, M. Kaunisto, C. Kubisch, M. Kurki, T. Kurth, L. Launer, T. Lehtimaki, D. Lessel, L. Ligthart, N. Litterman, A.M.J.M.van den Maagdenberg, A. Macaya, R. Malik, M. Mangino, G. McMahon, B. Muller-Myhsok, C. Northover, J. Olesen, L.M. Pedersen, N. Pedersen, D. Posthuma, P. Pozo-Rosich, A. Pressman, L. Quaye, O. Raitakari, M. Schrks, C. Sintas, H. Stefansson, S. Steinberg, D. Strachan, G.M. Terwindt, M. Vila-Pueyo, M. Wessman, B.S. Winsvold, W. Wrenthal, H. Zhao, J-A. Zwart, J. Kaprio, A.J. Aromaa, O. Raitakari, M.A. Ikram, T. Spector, M-R. Jrvelin, A. Metspalu, C. Kubisch, D.P. Strachan, M.D. Ferrari, A.C. Belin, M. Dichgans, M. Wessman, A.M.J.M. van den Maagdenberg, J-A. Zwart, D.I. Boomsma, G.D. Smith, K. Stefansson, N. Eriksson, M.J. Daly, B.M. Neale, J. Olesen, D.I. Chasman, D.R. Nyholt, A. Palotie. Nature Genetics (2016) doi:10.1038/ng.3598
 - 39. GWAS of 89,283 individuals identifies genetic variants associated with self-reporting of being a morning person. Y. Hu, A. Shmygelska, D. Tran, N. Eriksson, J.Y. Tung, D.A. Hinds. *Nature Communications* 7, Article number: 10448, Feb 2016.
- 2015 38. Virtual research visits and direct-to-consumer genetic testing in Parkinsons disease. E.R. Dorsey, K.C. Darwin, S. Mohammed, S. Donohue, A. Tethal, M.A. Achey, S. Ward, E. Caughey, E.D. Conley, N. Eriksson, B. Ravina. *Digital Health*, Jun 2015.
 - 37. Assessment of the Genetic Basis of Rosacea by Genome-Wide Association Study. A. L. S. Chang, I. Raber, J. Xu, R. Li, R. Spitale, J. Chen, A. K. Kiefer, C. Tian, **N. Eriksson**, D. A. Hinds, J. Y. Tung. *Journal of Investigative Dermatology*, March 2015.
 - 36. Genetic variants associated with motion sickness point to roles for inner ear development, neurological processes, and glucose homeostasis. B. S. Hromatka, J. Y. Tung, A. K. Kiefer, C. B. Do, D. A. Hinds, N. Eriksson. *Human Molecular Genetics*, 2015.
 - 35. Escape from crossover interference increases with maternal age. C. L. Campbell, N. A. Furlotte, **N. Eriksson**, D. A. Hinds, A. Auton. *Nature Communications*, 6, Feb 2015.
- 2014 34. Replicability and Robustness of Genome-Wide-Association Studies for Behavioral Traits. C. A. Rietveld, D. Conley, N. Eriksson, T. Esko, S. E. Medland, A. A. E. Vinkhuyzen, J. Yang, J. D. Boardman, C. F. Chabris, C. T. Dawes, B. W. Domingue, D. A. Hinds, M. Johannesson, A. K. Kiefer, D. Laibson, P. K. E. Magnusson, J. L. Mountain, S. Oskarsson, O. Rostapshova, A. Teumer, J. Y. Tung, P. M. Visscher, D. J. Benjamin, D. Cesarini, P. D. Koellinger. Psychological Science, Nov 2014, vol. 25, no. 11, 1975-1986.
 - 33. NeuroX, a Fast and Efficient Genotyping Platform for Investigation of Neurodegenerative Dis-

- eases. M. A. Nalls, J. Bras, D. G. Hernandez, M. F. Keller, E. Majounie, A. E. Renton, M. Saad, I. Jansen, R. Guerreiro, S. Lubbe, V. Plagnol, J. R. Gibbs, C. Schulte, N. Pankratz, M. Sutherland, L. Bertram, C. M. Lill, A. L. DeStefano, T. Faroud, **N. Eriksson**, J. Y. Tung, C. Edsall, N. Nichols, J. Brooks, S. Arepalli, H. Pliner, C. Letson, P. Heutink, M. Martinez, T. Gasser, B. J. Traynor, N. Wood, J. Hardy, A. B. Singleton. *Neurobiology of Aging*, 4 Aug 2014.
- 32. Large-scale meta-analysis of genome-wide association data identifies six new risk loci for Parkinson's disease. M. A. Nalls, N. Pankratz, C. M. Lill, C. B. Do, D. G. Hernandez, M. Saad, A. L. DeStefano, E. Kara, J. Bras, M. Sharma, C. Schulte, M. F. Keller, S. Arepalli, C. Letson, C. Edsall, H. Stefansson, X. Liu, H. Pliner, J. H. Lee, R. Cheng, International Parkinson's Disease Genomics Consortium (IPDGC), Parkinson's Study Group (PSG) Parkinson's Research: The Organized GENetics Initiative (PROGENI), 23andMe, GenePD, NeuroGenetics Research Consortium (NGRC), Hussman Institute of Human Genomics (HIHG), The Ashkenazi Jewish Dataset Investigator, Cohorts for Health and Aging Research in Genetic Epidemiology (CHARGE), North American Brain Expression Consortium (NABEC), United Kingdom Brain Expression Consortium (UKBEC), Greek Parkinson's Disease Consortium, Alzheimer Genetic Analysis Group, M. A. Ikram, J. P. A. Ioannidis, G. M Hadjigeorgiou, J. C. Bis, M. Martinez, J. S. Perlmutter, A. Goate, K. Marder, B. Fiske, M. Sutherland, G. Xiromerisiou, R. H. Myers, L. N. Clark, K. Stefansson, J. A. Hardy, P. Heutink, H. Chen, N. W. Wood, H. Houlden, H. Payami, A. Brice, W. K. Scott, T. Gasser, L. Bertram, N. Eriksson, T. Foroud, A. B. Singleton. Nature Genetics (2014) doi:10.1038/ng.3043
- 31. Reducing pervasive false positive identical-by-descent segments detected by large-scale pedigree analysis. E. Y. Durand, **N. Eriksson**, C. Y. McLean. *Mol Biol Evol*, 30 April 2014.
- 2013 30. Genome-wide association analysis identifies 11 risk variants associated with the asthma with hay fever phenotype. M. A. R. Ferreira, M. C. Matheson, C. S. Tang, R. Granell, W. Ang, J. Hui, A. K. Kiefer, D. L. Duffy, S. Baltic, P. Danoy, M. Bui, L. Price, P. D. Sly, N. Eriksson, P. A. Madden, M. J. Abramson, P. G. Holt, A. C. Heath, M. Hunter, B. Musk, C. F. Robertson, P. Le Souef, W. Montgomery, A.J. Henderson, J. Y. Tung, S. C. Dharmage, M. A. Brown, A. James, P. J. Thompson, C. Pennell, N. G. Martin, D. M. Evans, D. A. Hinds, J. L. Hopper. Journal of Allergy and Clinical Immunology, 31 December 2013
 - 29. Gradiant Boosting as a SNP filter: an evaluation using simulated and hair morphology data. G. H. Lubke, C. Laurin, R. Walters, **N. Eriksson**, P. Hysi, T. D. Spector, G. W. Montgomery, D. I. Boomsma, N. G. Martin, and S. E. Medland. *Journal of Data Mining in Genomics & Proteomics*, 2013, 4:4
 - 28. Serum iron levels and the risk of Parkinson's disease: a Mendelian randomization study. I. Pichler, F. Del Greco M., M. Gogele, C. M. Lill, L. Bertram, C. B. Do, **N. Eriksson**, T. Foroud, R. H. Myers, M. Nalls, M. F. Keller, B. Benyamin, J. B. Whitfield, P. P. Pramstaller, A. A. Hicks, J. Thompson, and C. Minelli. *PLOS Med.* 10(6): e1001462.
 - 27. A genome-wide association meta-analysis of self-reported allergy identifies shared and allergy-specific susceptibility loci. D. A. Hinds, G. McMahon, A. K. Kiefer, C. B. Do, **N. Eriksson**, D. M. Evans, B. St Pourcain, S. M. Ring, J. L. Mountain, U. Francke, G. Davey-Smith, N. J. Timpson, and J. Y. Tung. *Nat Genet*, 2013 June 30.
 - Genome-Wide Association Analysis Implicates Elastic Microfibrils in the Development of Nonsyndromic Striae Distensae. J. Y. Tung, A.K. Kiefer, M. Mullins, U. Francke, and N. Eriksson. J Invest Dermatol, 2013 Apr 30
 - 25. Genome-wide analysis points to roles for extracellular matrix remodeling, the visual cycle, and neuronal development in myopia. A. K. Kiefer, J. Y. Tung, C. B. Do, D. A. Hinds, J. L. Mountain, U. Francke, and N. Eriksson. *PLoS Genet.*, 9(2): e1003299.

- 24. Dealing with the unexpected: Consumer responses to direct-access *BRCA* mutation testing. U. Francke, C. Dijamco, A. K. Kiefer, **N. Eriksson**, B. R. Moiseff, J. Y. Tung, and J. L. Mountain. *PeerJ*, 1:e8.
- 23. Androgenetic alopecia: identification of four new genetic risk loci and evidence for the contribution of WNT-signaling to its etiology. S. Heilmann, A. K. Kiefer, N. Fricker, D. Drichel, A. M. Hillmer, C. Herold, J. Y. Tung, N. Eriksson, S. Redler, R. C. Betz, R. Li, A. Karason, D. R. Nyholt, K. Song, S. H. Vermeulen, S. Kanoni, G. Dedoussis, N. G. Martin, L. A. Kiemeney, V. Mooser, K. Stefansson, J. B. Richards, T. Becker, F. F. Brockschmidt, D. A. Hinds, and M. M. Nothen. J Invest Dermatol, 2013 Jan 28.
- 2012 22. A genetic variant near olfactory receptor genes influences cilantro preference. N. Eriksson, S. Wu, C. B. Do, A. K. Kiefer, J. Y. Tung, J. L. Mountain, D. A. Hinds, and U. Francke. Flavour, 1:22, Dec 2012.
 - 21. Comparison of Family History and SNPs for Predicting Risk of Complex Disease. C. B. Do, D. A. Hinds, U. Francke, and N. Eriksson. *PLoS Genet.*, 8(10): e1002973, October 2012.
 - Genetic variants associated with breast size also influence breast cancer risk. N. Eriksson, G. M. Benton, C. B. Do, A. K. Kiefer, J. L. Mountain, D. A. Hinds, U. Francke, and J. Y. Tung. BMC Med Genet, 13(1):53, Jun 2012
 - 19. Six novel susceptibility Loci for early-onset androgenetic alopecia and their unexpected association with common diseases. R. Li, F. F. Brockschmidt, A. K. Kiefer, H. Stefansson, D. R. Nyholt, K. Song, S. H. Vermeulen, S. Kanoni, D. Glass, S. E. Medland, M. Dimitriou, D. Waterworth, J. Y. Tung, F. Geller, S. Heilmann, A. M. Hillmer, V. Bataille, S. Eigelshoven, S. Hanneken, S. Moebus, C. Herold, M. den Heijer, G. W. Montgomery, P. Deloukas, N. Eriksson, A. C. Heath, T. Becker, P. Sulem, M. Mangino, P. Vollenweider, T. D. Spector, G. Dedoussis, N. G. Martin, L. A. Kiemeney, V. Mooser, K. Stefansson, D. A. Hinds, M. M. Nothen, and J. B. Richards. PLoS Genet., 8(5):e1002746, May 2012.
 - Cryptic distant relatives are common in both isolated and cosmopolitan genetic samples. B. M. Henn, L. Hon, J. M. Macpherson, N. Eriksson, S. Saxonov, I. Pe'er, and J. L. Mountain. PLoS ONE, 7(4):e34267, 2012.
 - 17. Novel associations for hypothyroidism include known autoimmune risk loci. **N. Eriksson**, J. Y. Tung, A. K. Kiefer, D. A. Hinds, U. Francke, J. L. Mountain, and C. B. Do. *PLoS ONE*, 7(4):e34442, 2012.
 - 16. Comprehensive research synopsis and systematic meta-analyses in Parkinson's disease genetics: The PDGene database. C. M. Lill, J. T. Roehr, M. B. McQueen, F. K. Kavvoura, S. Bagade, B. M. Schjeide, L. M. Schjeide, E. Meissner, U. Zauft, N. C. Allen, T. Liu, M. Schilling, K. J. Anderson, G. Beecham, D. Berg, J. M. Biernacka, A. Brice, A. L. DeStefano, C. B. Do, N. Eriksson, S. A. Factor, M. J. Farrer, T. Foroud, T. Gasser, T. Hamza, J. A. Hardy, P. Heutink, E. M. Hill-Burns, C. Klein, J. C. Latourelle, D. M. Maraganore, E. R. Martin, M. Martinez, R. H. Myers, M. A. Nalls, N. Pankratz, H. Payami, W. Satake, W. K. Scott, M. Sharma, A. B. Singleton, K. Stefansson, T. Toda, J. Y. Tung, J. Vance, N. W. Wood, C. P. Zabetian, P. Young, R. E. Tanzi, M. J. Khoury, F. Zipp, H. Lehrach, J. P. Ioannidis, and L. Bertram. PLoS Genet., 8(3):e1002548, 2012.
- 2011 15. The temporal order of genetic and pathway alterations in tumorigenesis. M. Gerstung, N. Eriksson, J. Lin, B. Vogelstein, and N. Beerenwinkel. *PLoS ONE*, 6(11):e27136, 2011.
 - Efficient replication of over 180 genetic associations with self-reported medical data. J. Y. Tung, C. B. Do, D. A. Hinds, A. K. Kiefer, J. M. Macpherson, A. B. Chowdry, U. Francke, B. T. Naughton, J. L. Mountain, A. Wojcicki, and N. Eriksson. *PLoS ONE*, 6(8):e23473, 2011.

- 13. Web-based genome-wide association study identifies two novel loci and a substantial genetic component for Parkinson's disease. C. B. Do, J. Y. Tung, E. Dorfman, A. K. Kiefer, E. M. Drabant, U. Francke, J. L. Mountain, S. M. Goldman, C. M. Tanner, J. W. Langston, A. Wojcicki, and **N. Eriksson**. *PLoS Genet.*, 7(6):e1002141, Jun 2011.
- 12. ShoRAH: estimating the genetic diversity of a mixed sample from next-generation sequencing data. O. Zagordi, A. Bhattacharya, **N. Eriksson**, and N. Beerenwinkel. *BMC Bioinformatics*, 12:119, Apr 2011.
- 11. Parametric analysis of alignment and phylogenetic uncertainty. A. S. Malaspinas, **N. Eriksson**, and P. Huggins. *Bull. Math. Biol.*, 73:795–810, Apr 2011.
- 2010 10. Web-based, participant-driven studies yield novel genetic associations for common traits. N. Eriksson, J. M. Macpherson, J. Y. Tung, L. S. Hon, B. Naughton, S. Saxonov, L. Avey, A. Wojcicki, I. Pe'er, and J. Mountain. *PLoS Genet.*, 6:e1000993, Jun 2010.
- Viral population estimation using pyrosequencing. N. Eriksson, L. Pachter, Y. Mitsuya, S. Y. Rhee, C. Wang, B. Gharizadeh, M. Ronaghi, R. W. Shafer, and N. Beerenwinkel. *PLoS Comput. Biol.*, 4:e1000074, Apr 2008.
 - 8. Sequence editing by Apolipoprotein B RNA-editing catalytic component and epidemiological surveillance of transmitted HIV-1 drug resistance. R. J. Gifford, S. Y. Rhee, **N. Eriksson**, T. F. Liu, M. Kiuchi, A. K. Das, and R. W. Shafer. *AIDS*, 22:717–725, Mar 2008.
- Conjuctive Bayesian networks. N. Beerenwinkel, N. Eriksson, and B. Sturmfels. Bernoulli, 13(4):893–909, 2007.
 - 6. Apollonian Circle Packings: Number Theory II. Spherical and Hyperbolic Packings. N. Eriksson and J. C. Lagarias. *Ramanujan Journal*, 14(3):437–469, 2007.
- 2006 5. Polyhedral conditions for the nonexistence of the MLE for hierarchical log-linear models. N. Eriksson, S. E. Fienberg, A. Rinaldo, and S. Sullivant. J. Symbolic Comput., 41(2):222–233, 2006.
 - 4. Markov bases for noncommutative Fourier analysis of ranked data. P. Diaconis and N. Eriksson. J. Symbolic Comput., 41(2):182–195, 2006.
 - 3. Evolution on distributive lattices. N. Beerenwinkel, N. Eriksson, and B. Sturmfels. J Theor Biol, 242(2):409-420, Sep 2006.
- 2004 2. Toric ideals of homogeneous phylogenetic models. N. Eriksson. In the proceedings of *ISSAC* 2004, pages 149–154. ACM, New York, 2004.
- 1999 1. q-series, elliptic curves, and odd values of the partition function. N. Eriksson. *International Journal of Mathematics and Mathematical Sciences*, 22(1):55–66, 1999

Theses and book chapters

- 2015 7. Who's Benefiting from MOOCs, and Why. C. Zhenghao, B. Alcorn, G. Christensen, N. Eriksson, D. Koller, E.J. Emanuel. *Harvard Business Review*, September 22, 2015.
- 2009 6. Using invariants for phylogenetic tree construction. N. Eriksson. In *Emerging Applications of Algebraic Geometry*, pages 89–108. Springer, New York, 2009.
- 2007 5. Metric learning for phylogenetic invariants. N. Eriksson and Y. Yao. ArXiv preprint, 2007.
- 2006 4. Algebraic combinatorics for computational biology. N. Eriksson. PhD thesis, University of California, Berkeley, 2006.
- 2005 3. Ultra-Conserved Elements in Vertebrate and Fly Genomes. M. Drton, N. Eriksson, and G. Leung. In L. Pachter and B. Sturmfels, editors, Algebraic Statistics for Computational Biology, chapter 22, pages 387–402. Cambridge University Press, Cambridge, UK, 2005.

- 2. Tree Construction using Singular Value Decompsition. N. Eriksson. In L. Pachter and B. Sturmfels, editors, *Algebraic Statistics for Computational Biology*, chapter 19, pages 347–358. Cambridge University Press, Cambridge, UK, 2005.
- 1. Phylogenetic algebraic geometry. N. Eriksson, K. Ranestad, B. Sturmfels, and S. Sullivant. In C. Ciliberto, A. Geramita, B. Harbourne, R-M. Roig, and K. Ranestad, editors, *Projective varieties with unexpected properties*, pages 237–255. Walter de Gruyter GmbH & Co. KG, Berlin, 2005.

Invit	ed and	d Conference talks
		Coursera Partners Conference, Irvine, CA
2014	Feb.	Computation-Intensive Probabilistic and Statistical Methods for Large-Scale Population Genomics, Berkeley, CA
	Feb.	Genomics in Medicine, San Francisco, CA
2013		American Society of Human Genetics Annual Meeting, Boston, MA
	May	Advanced Topics in Genomics and Cell Biology, UNICAMP, Campinas, Brazil
	Mar.	Broad Institute, Medical and Population Genetics Program Seminar
	Jan.	Columbia University Computer Science Seminar, New York, NY
	Jan.	Monell Chemical Senses Center, Philadelphia, PA
		Genomic Medicine Symposium, Berkeley, CA
2012	Nov.	American Society of Human Genetics Annual Meeting, San Francisco, CA
	Oct.	EMBL PhD Symposium, Heidelberg, Germany
	Oct.	Colloquium, IST Vienna
		IEEE New Frontiers in Computing, Stanford University
	Apr.	NHGRI Seminar, Bethesda, MD
	Mar.	Bay Area Discrete Mathematics Day, UC Berkeley
	Feb.	MJFF LRRK2 and Parkinson's meeting, Tel Aviv
2011	Oct.	UC San Diego Institute for Genomic Medicine Annual Symposium
	Sep.	IBM Almaden Research, Seminar
	Sep.	Human Genomic Variation Conference, Berkeley, CA
2010	Nov.	Broad Institute, Seminar
	Apr.	Network Biology 2.0 conference, Broad Institute
	Apr.	Friends of the National Library of Science, NIH
2009	Dec.	Partnering for Cures Meeting, New York
	Dec.	Cure Parkinsons Trust Genetics Conference, Royal Society of Medicine, London
	Oct.	American Society of Human Genetics Annual Meeting, Honolulu, HI
	Oct.	Society for Industrial and Applied Mathematics Annual Meeting, San Francisco, CA
	Sep.	UC San Francisco Biostatistics Seminar
	May	International Symposium on Bioinformatics Research and Applications (keynote)
	May	Oxford University, Wellcome Trust Centre for Human Genetics
2008	Mar.	Brown University, CCMB Seminar
	Feb.	University of Miami, Mathematics Seminar
	Feb.	Virginia Bioinformatics Institute
	Jan.	Columbia University, Statistics seminar
	Jan.	Viral Paradigms: Molecules, Populations, Ecosystems and Infectious Disease; Georgia Tech
	Jan.	Duke University, Mathematics seminar
	Dec.	University of Basel, Switzerland, Bioinformatics seminar

Oct. AMS Central Section Annual Meeting, Chicago, IL

Jul. Second Argentine School of Mathematics and Biology, La Falda, Argentina

—— Jun.	UC Irvine, 2007 WNAR/IMS annual meeting
2007 May	Stanford University, Workshop in Biostatistics
—— Apr.	UC San Diego, Computational biology seminar
—— Apr.	UCLA, Statistics seminar
Mar	. University of Minnesota, Combinatorics seminar
—— Feb.	Bay area biosystematists meeting
—— Feb.	Duke University, Mathematics seminar
—— Jan.	Stanford University, BioMathematical Methodology Seminar
2006 Nov	. University of Chicago / Toyota Technological Institute Seminar
Nov	. University of Chicago, Statistics seminar
—— Sep.	UC Davis, Berkeley-Davis Mathematical Genomics Meeting
—— Jun.	MSRI Summer Graduate Workshop: Mathematical aspects of computational biology
Mar	. University of Miami, Mathematics colloquium
Mar	. University of Miami, Combinatorics seminar
—— Feb.	Massachusetts Institute of Technology, Special applied mathematics seminar
—— Jan.	Carnegie Mellon University, Statistics seminar
—— Jan.	Joint AMS/MAA Meeting, Special Session on Algebraic Statistics: Theory and Practice
2005 Dec.	First Argentine School of Mathematics and Biology, La Cumbre, Argentina
2004 Jul.	University of Barcelona, Seminari D'àlgebra commutativa, combinatòria, i computacional
Jul.	University of Cantabria, Santander, Spain, International Symposium on Symbolic and Alge-
	braic Computation

Referee and review activities

PLoS Genetics Annals of Combinatorics

Genome Medicine Statistical Applications in Genetics and Molecular Biology

Human Molecular Genetics Statistica Sinica Journal of Medical Genetics BMC Bioinformatics

Journal of Symbolic Computation JAMA

RECOMB

Teaching

2008	Spring	Statistics 234 (Statistical Models/Methods), University of Chicago
2008	Winter	Reading course on metagenomics and population genetics, University of Chicago
2007	Fall	Statistics 234 (Statistical Models/Methods), University of Chicago
2007	July	Second Argentine School of Mathematics and Biology, short course on Drug resistance
		in HIV
2005	Dec	First Argentine School of Mathematics and Biology, short course on Algebraic statistics
		for computational biology
2004	Fall	Calculus 1A, UC Berkeley, Graduate Student Instructor