Curriculum Vitae NICHOLAS ERIKSSON

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Date of Birth: 1978 (Montana, USA) Date of CV: July 2017

Education/Employment

2010		
2016 -		Senior Computational Biologist, Calico Labs, South San Francisco, CA
2014 - 2	2016	Data Scientist, Coursera, Mountain View, CA
2009 - 2	2014	Principal Scientist, Statistical Genetics, 23andMe, Inc., Mountain View, CA
2008 - 2	2009	Scientist, Statistical Genetics, 23andMe, Inc., Mountain View, CA
2007 - 2	8008	Visiting Assistant Professor, Department of Statistics,
		University of Chicago, Chicago, IL
2006 - 2	2007	NSF Postdoctoral Research Fellow, Department of Statistics,
		Stanford University, Stanford, CA
2006 - 2	2007	Postdoctoral Fellow, Mathematical Sciences Research Institute, Berkeley, CA
2006 F	h.D.	Mathematics, University of California, Berkeley (advisor: Bernd Sturmfels)
2006		Designated Emphasis in Computational and Genomic Biology,
		University of California, Berkeley
2001 S	S.B.	${\bf Mathematics, Massachusetts Institute of Technology, Cambridge, MA}$

Scientific/Academic honors and grants

2013 - 2014	Principal Investigator, NIH Grant 2R44HG006981-02, Development of a web-based
	database and research engine for genetic discovery (\$805,975)
2012 - 2013	Principal Investigator, NIH Grant 1R43HG006981-01, Development of a web-based
	database and research engine for genetic discovery (\$232,602)
2012 - 2013	Principal Investigator, MJFF Research Grant, Using external research experts to mine
	the 23andMe Parkinson's database (\$26,400)
2006 - 2008	National Science Foundation Postdoctoral Research Fellowship in the Mathematical
	Sciences
2006	Bernard Friedman Prize, University of California, Berkeley, top thesis in applied math-
	ematics
2001 - 2004	National Defense Science and Engineering Graduate Fellowship
2001	National Science Foundation Graduate Research Fellowship (Declined)
1997	Third place, Westinghouse Science Talent Search, q-series, elliptic curves, and odd
	values of the partition function.

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

Publications

Peer-reviewed and submitted articles (45 total, 18 as first/last/unordered author)

- 2017 45. A genetic investigation of sex bias in the prevalence of attention deficit hyperactivity disorder. J. Martin, R.K. Walters, D. Demontis, M. Mattheisen, S.H. Lee, E. Robinson, I. Brikell, L. Ghirardi, H. Larsson, P. Lichtenstein, N. Eriksson, 23andMe Research Team, Psychiatric Genomics Consortium: ADHD Subgroup, iPSYCH-Broad ADHD Workgroup, T. Werge, P.B. Mortensen, M.G. Pedersen, O. Mors, M. Nordentoft, D.M. Hougaard, J. Bybjerg-Grauholm, N. Wray, B. Franke, S.V. Faraone, M.C. O'Donovan, A. Thapar, A.D. Brglum, B.M. Neale. bioRxiv (2017)
 - Discovery Of The First Genome-Wide Significant Risk Loci For ADHD. D. Demontis, R.K. Walters, J. Martin, M. Mattheisen, T.D. Als, E. Agerbo, R. Belliveau, J. Bybjerg-Grauholm, M. Bkved-Hansen, F. Cerrato, K. Chambert, C. Churchhouse, A. Dumont, N. Eriksson, M. Gandal, J. Goldstein, J. Grove, C.S. Hansen, M. Hauberg, M. Hollegaard, D.P. Howrigan, H. Huang, J. Maller, A.R. Martin, J. Moran, J. Pallesen, D.S. Palmer, C.B. Pedersen, M.G. Pedersen, T. Poterba, J.B. Poulsen, S. Ripke, E.B. Robinson, F.K. Satterstrom, C. Stevens, P. Turley, H. Won, ADHD Working Group of the Psychiatric Genomics Con, Early Lifecourse and Genetic Epidemiology (EAGLE), 23andMe Research Team, O.A. Andreassen, C. Burton, D. Boomsma, B. Cormand, S. Dalsgaard, B. Franke, J. Gelernter, D. Geschwind, H. Hakonarson, J. Haavik, H. Kranzler, J. Kuntsi, K. Langley, K-P. Lesch, C. Middeldorp, A. Reif, L.A. Rohde, P. Roussos, R. Schachar, P. Sklar, E. Sonuga-Barke, P.F. Sullivan, A. Thapar, J.Y. Tung, I. Waldman, M. Nordentoft, D.M. Hougaard, T. Werge, O. Mors, P.B. Mortensen, M.J. Daly, S.V. Faraone, A.D. Brglum, B.M. Neale. bioRxiv (2017)
 - 43. Large scale meta-analysis characterizes genetic architecture for common psoriasis associated variants. L.C. Tsoi, P.E. Stuart, C. Tian, J.E. Gudjonsson, S. Das, M. Zawistowski, E. Ellinghaus, J.N. Barker, V. Chandran, N. Dand, K.C. Duffin, C. Enerbck, T. Esko, A. Franke, D.D. Gladman, P. Hoffmann, K. Kingo, S. Kks, G. G. Krueger, H.W. Lim, A. Metspalu, U. Mrowietz, S. Mucha, P. Rahman, A. Reis, T. Tejasvi, R. Trembath, J.J. Voorhees, S. Weidinger, M. Weichenthal, X. Wen, N. Eriksson, H.M. Kang, D.A. Hinds, R.P. Nair, G.R. Abecasis, J.T. Eldera. Nat Commun. 2017; 8: 15382
- 2016 42. Genome-wide analysis identifies 12 loci influencing human reproductive behavior. N. Barban, R. Jansen, R. de Vlaming, A. Vaez, J.J. Mandemakers, F.C. Tropf, X. Shen, J.F. Wilson, D.I. Chasman, I.M. Nolte, V. Tragante, S.W. van der Laan, JRB Perry, A. Kong, T. S Ahluwalia, E. Albrecht, L. Yerges-Armstrong, G. Atzmon, K. Auro, K. Ayers, A. Bakshi, D. Ben-Avraham, K. Berger, A. Bergman, L. Bertram, L.F. Bielak, G. Bjornsdottir, M. Jan Bonder, L. Broer, M. Bui, C. Barbieri, A. Cavadino, J.E. Chavarro, C. Turman, M. Pina Concas, H.J. Cordell, G. Davies, P. Eibich, N. Eriksson, T. Esko, J. Eriksson, F. Falahi, J.F. Felix, M.A. Fontana, L. Franke, I. Gandin, A.J. Gaskins, C. Gieger, E. P. Gunderson, X. Guo, C. Hayward, C. He, E. Hofer, H. Huang, P.K. Joshi, S. Kanoni, R. Karlsson, S. Kiechl, A. Kifley, A. Kluttig, P. Kraft, V. Lagou, C. Lecoeur, J. Lahti, R. Li-Gao, P. A Lind, T. Liu, E. Makalic, C. Mamasoula, L. Matteson, H. Mbarek, P.F. McArdle, G. McMahon, SFW Meddens, E. Mihailov, M. Miller, S.A. Missmer, C. Monnereau, P.J. van der Most, R. Myhre, M.A Nalls, T. Nutile, I. Panagiota Kalafati, E. Porcu, I. Prokopenko, K.B. Rajan, J. Rich-Edwards, C.A. Rietveld, A. Robino, L.M. Rose, R. Rueedi, K.A. Ryan, Y. Saba, D. Schmidt, J.A. Smith, L. Stolk, E. Streeten, A. Tnies, G. Thorleifsson, S. Ulivi, J. Wedenoja, J. Wellmann, P. Willeit, J. Yao, L. Yengo, J. Hua Zhao, W. Zhao, D.V. Zhernakova, N. Amin, H. Andrews, B. Balkau, N. Barzilai, S. Bergmann, G. Biino, H. Bisgaard, K. Bnnelykke, D. I Boomsma, J.E. Buring, H. Campbell, S. Cappellani, M. Ciullo, S.R. Cox, F. Cucca, D. Toniolo, G. Davey-Smith, I.J. Deary, G. Dedoussis, P. Deloukas, C.M.

- van Duijn, EJC de Geus, J.G. Eriksson, D.A. Evans, J.D. Faul, C. Felicita Sala, P. Froguel, P. Gasparini, G. Girotto, H-J Grabe, K. Halina Greiser, PJF Groenen, H.G. de Haan, J. Haerting, T.B. Harris, A.C. Heath, K. Heikkil, A. Hofman, G. Homuth, E.G. Holliday, J. Hopper, E. Hyppnen. *Nature Genetics* 48, 14621472 (2016)
- 41. Germline variants predispose to both JAK2 V617F clonal hematopoiesis and myeloproliferative neoplasms. D.A. Hinds, K.E. Barnholt, R.A. Mesa, A.K. Kiefer, C.B. Do, **N. Eriksson**, J.L. Mountain, U. Francke, J.Y. Tung, H.M. Nguyen, H. Zhang, L. Gojenola, J.L. Zehnder, J. Gotlib. *Blood* (2016) doi:10.1182/blood-2015-06-652941
- 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 Diseases. 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.
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- 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.
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 - 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.
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 - 11. Parametric analysis of alignment and phylogenetic uncertainty. A. S. Malaspinas, **N. Eriksson**, and P. Huggins. *Bull. Math. Biol.*, 73:795–810, Apr 2011.
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 - 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.
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Theses and book chapters

- 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.
 - 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
2015	Mar.	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	Oct.	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
	Jan.	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
	Jun.	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

—— Dec. Cure Parkinsons Trust Genetics Conference, Royal Society of Medicine, London

Oct. Society for Industrial and Applied Mathematics Annual Meeting, San Francisco, CA

Oct. American Society of Human Genetics Annual Meeting, Honolulu, HI

2009 Dec. Partnering for Cures Meeting, New York

— Sen	UC San Francisco Biostatistics Seminar
-	International Symposium on Bioinformatics Research and Applications (keynote)
-	Oxford University, Wellcome Trust Centre for Human Genetics
	Brown University, CCMB Seminar
	University of Miami, Mathematics Seminar
	Virginia Bioinformatics Institute
	Columbia University, Statistics seminar
	Viral Paradigms: Molecules, Populations, Ecosystems and Infectious Disease; Georgia Tech
	Duke University, Mathematics seminar
	University of Basel, Switzerland, Bioinformatics seminar
	AMS Central Section Annual Meeting, Chicago, IL
— Jul.	Second Argentine School of Mathematics and Biology, La Falda, Argentina
	UC Irvine, 2007 WNAR/IMS annual meeting
	Stanford University, Workshop in Biostatistics
	UC San Diego, Computational biology seminar
-	UCLA, Statistics seminar
_	University of Minnesota, Combinatorics seminar
	Bay area biosystematists meeting
	Duke University, Mathematics seminar
	Stanford University, BioMathematical Methodology Seminar
	University of Chicago / Toyota Technological Institute Seminar
	University of Chicago, Statistics seminar
	UC Davis, Berkeley-Davis Mathematical Genomics Meeting
_	MSRI Summer Graduate Workshop: Mathematical aspects of computational biology
	University of Miami, Mathematics colloquium
	University of Miami, Combinatorics seminar
	Massachusetts Institute of Technology, Special applied mathematics seminar
	Carnegie Mellon University, Statistics seminar
	Joint AMS/MAA Meeting, Special Session on Algebraic Statistics: Theory and Practice
	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-
J	braic Computation
Referee an	nd review activities
INCIDED AL	

Referee and review activities

Annals of Combinatorics PLoS Genetics

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 8	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	l Fall	Calculus 1A UC Berkeley Graduate Student Instructor			