Curriculum Vitae NICHOLAS ERIKSSON

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

Education/Employment

2016 -	Senior Computational Biologist, Calico Labs, South San Francisco, CA
2014 - 2016	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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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 (42 total, 18 as first/last/unordered author)

- 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. Tnjes, 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.
 - 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.
- 18. 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.

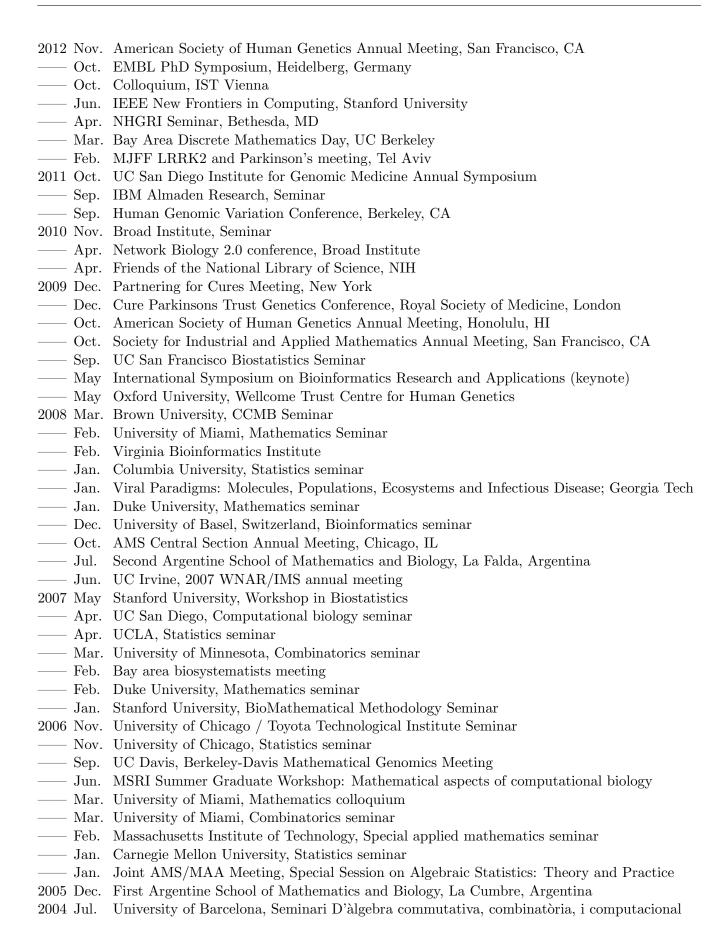
- 2007 7. Conjuctive Bayesian networks. N. Beerenwinkel, N. Eriksson, and B. Sturmfels. *Bernoulli*, 13(4):893–909, 2007.
 - 6. Apollonian Circle Packings: Number Theory II. Spherical and Hyperbolic Packings. N. Eriksson and J. C. Lagarias. *Ramanujan Journal*, 14(3):437–469, 2007.
- 2006 5. Polyhedral 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

- 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.

Invited and 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



— Jul. University of Cantabria, Santander, Spain, International Symposium on Symbolic and Algebraic 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