

Eleanor Feingold

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Education

Stanford University PhD 1993

Degree in statistics, with emphasis in probability and stochastic processes

Massachusetts Institute of Technology BS 1985

Interdisciplinary major, with concentrations in mathematics, public policy, and writing

Appointments

ACE Fellowship 2021–2022

Fort Lewis College, Durango CO, Fall 2021

Hobart and William Smith Colleges, Geneva NY, Spring 2022

University of Pittsburgh 1997–present

Leadership roles

Senior/Executive Associate Dean, School of Public Health, 2015–2022

Interim Chair, Department of Human Genetics, 2018–2021, 2022–present

Associate Dean for Education, School of Public Health, 2010–2017

Vice Chair, Department of Human Genetics, 2008–2010

Director of Graduate Studies, Department of Human Genetics, 2004–2010

Academic appointments

Department of Human Genetics, School of Public Health

Secondary appointments in Biostatistics and Clinical and Translational Science

Professor of Human Genetics, 2010–present

Associate Professor of Human Genetics, 2003–2010

Assistant Professor of Human Genetics, 1997–2003

Emory University 1993–1997

Department of Biostatistics, Rollins School of Public Health

Assistant Professor of Biostatistics

Pacific Gas & Electric Company 1985–1988

Member of an internal systems engineering consulting group

Leadership Programs

ACE Fellowship 2021–2022 (full time)

ACC Academic Leaders Network 2018-2019

ACE Fellowship Experience

Fort Lewis College (FLC), Durango CO, Fall 2021

Hobart and William Smith Colleges (HWS), Geneva NY, Spring 2022

Worked with presidents and provosts of both institutions on pressing higher education issues in the setting of the public/private liberal arts college

Presidential-level leadership and strategy

- FLC – wrote an entry on behalf of FLC for the NSF COVID-19 Diversity, Equity, & Inclusion Challenge which *won first place* in the competition among 4-year undergraduate institutions
- FLC – worked with the president to develop institutional success metrics for the board of trustees
- FLC – helped develop new partnerships with external nursing and public health schools
- HWS – worked with the president on naming issues and associated communications and development strategies
- HWS – worked with the president and provost on strategies and issues around moving the institution into more graduate education
- HWS – helped the provost develop strategies for stimulating faculty-led curricular innovation

Institutional effectiveness and data use strategies

- FLC – worked with the provost to develop new student retention data analyses and student surveys and harmonize them with traditional IR reporting
- HWS – worked with the provost’s office and IR to develop new institutional effectiveness analyses and strategies

Support and retention of minoritized students

- FLC – worked with the provost to review developmental mathematics support programs in the college and start brainstorming new, integrated approaches
- FLC – worked with the provost to review administrative/structural barriers in areas such as financial aid and course registration rules
- FLC – worked with the provost and vice provost on implementing the new “Academic Care Team” providing wrap-around retention support

Partnering with faculty on curricular innovation

- FLC – helped the provost start faculty discussions on streamlining major requirements and on new health sciences programs
- HWS – worked with faculty committees on developing data analytics minor, public health major, and new masters degrees

Administrative Responsibilities and Accomplishments

Senior/Executive Associate Dean, School of Public Health 2015–2022

Central responsibilities

- Chief operating officer of the school - collaborated with the Dean on all aspects of internal and external operations (seven departments, 650 students in 32 graduate degree and certificate programs, 170 faculty, annual budget \$23M hard money, \$55M grants)
- Provided both vision and administrative leadership for new initiatives in all areas through collaborative and “influence-based” leadership
- Collaborated with the Associate Dean for Finance and Administration on financial planning and budgeting and on administrative issues
- Coordinated efforts of seven other associate deans in areas of research, faculty affairs, education, student affairs, public health practice, and diversity and inclusion
- Worked closely with departments, program directors, faculty, and administrative staff to implement new initiatives and policies
- Lead interactions with the Office of the Provost in educational, budgetary, and faculty affairs matters
- Supervised technology services (IT) to provide schoolwide support for administrative, educational, and research needs
- Supervised external affairs group (media, strategic communications, alumni, development) to create and deliver coordinated messaging for all school needs
- Oversaw space allocation and research infrastructure
- Planned and lead all strategic planning, assessment, and accreditation activities

Accomplishments

- Led all aspects of the school’s pandemic response, including all crisis response, communications, and planning, as well as shut-down and re-start in the research and educational realms
- Created and implemented a financial aid and marketing initiative that increased masters student new enrollment by 68% in a single year
- Managed a major construction project, including 40,000 square feet of new research space and significant student and community spaces
- Integrated diversity, equity, and inclusion reviews into numerous aspects of school planning, from construction to curriculum
- Implemented a new budget allocation system with the dual goals of increasing transparency and creating sensible incentives for both educational and research success
- Integrated all of the school’s external relations functions (alumni, strategic communications, development, student recruiting, media relations) to ensure strong and consistent messaging and goals
- Led the development of a new BS program in public health – the school’s first undergraduate degree

Interim Chair, Department of Human Genetics 2018–2021

Central responsibilities

- Nurtured and managed a department of approximately 20 faculty and 130 graduate students, with a \$5M annual grant portfolio

Accomplishments

- Expanded a major research collaboration with the School of Dental Medicine
- Nurtured relationships with major donors
- Created a new MS program in Genome Bioinformatics
- Tripled MPH enrollment

Associate Dean for Education, School of Public Health 2010–2017

Central responsibilities

- Administered all educational programs
- Created and implemented new educational programs and initiatives
- Primary responsibility for faculty development in the educational realm - created, implemented, and assessed methods for encouraging a research-oriented faculty to develop their teaching and mentoring skills.
- Primary responsibility for meeting all accreditation requirements of the Council for Education in Public Health

Accomplishments

- Ran a successful re-accreditation in 2015, followed by curriculum reform in response to new 2016 accreditation criteria
- Over a period of ten years, systematically led culture change to move the school and the faculty from being almost entirely focused on research to having a balanced focus on research and education. Bottom line achievements include a number of new degree programs, promotion paths for education-focused faculty, increased student satisfaction and completion rates, and steady growth in tuition income

Vice-Chair, Department of Human Genetics 2008–2010

Director of Graduate Studies, Department of Human Genetics 2004–2010

- Co-developed Public Health Genetics MPH degree and Public Health Genetics certificate

Scholarship Highlights

Research areas

- Statistical methods for gene mapping and emerging genomic technologies
- Genetic epidemiology of Down syndrome and meiotic recombination
- Genetic epidemiology of oral and craniofacial traits
- Genetic epidemiology of Alzheimer's disease, cognition, and aging

Current grants

- Co-investigator on six grants in the areas of Alzheimer's, Down syndrome, dental and craniofacial traits, and heart disease

Selected recent and high-impact publications (from over 200)

- Oliver, T. R., Middlebrooks, C., Harden, A., Scott, N., Johnson, B., Jones, J., Walker, C., Wilkerson, C., Saffold, S. H., Akinseye, A., Smith, T., Feingold, E., & Sherman, S. L. (2016). Variation in the Zinc Finger of PRDM9 is Associated with the Absence of Recombination along Nondisjoined Chromosomes

21 of Maternal Origin. *J Down Syndr Chromosom Abnorm*, 2(2). <https://doi.org/10.4172/2472-1115.1000115>

- Ozbek, U., Lin, H. M., Lin, Y., Weeks, D. E., Chen, W., Shaffer, J. R., Purcell, S. M., & Feingold, E. (2018). Statistics for X-chromosome associations. *Genet Epidemiol*, 42(6), 539-550. <https://doi.org/10.1002/gepi.22132>
- Chernus, J. M., Allen, E. G., Zeng, Z., Hoffman, E. R., Hassold, T. J., Feingold, E., & Sherman, S. L. (2019). A candidate gene analysis and GWAS for genes associated with maternal nondisjunction of chromosome 21. *PLoS Genet*, 15(12), e1008414. <https://doi.org/10.1371/journal.pgen.1008414>
- Kamboh, M. I., Fan, K. H., Yan, Q., Beer, J. C., Snitz, B. E., Wang, X., Chang, C. H., Demirci, F. Y., Feingold, E., & Ganguli, M. (2019). Population-based genome-wide association study of cognitive decline in older adults free of dementia: identification of a novel locus for the attention domain. *Neurobiol Aging*, 84, 239 e215-239 e224. <https://doi.org/10.1016/j.neurobiolaging.2019.02.024>
- Chernus, J. M., Sherman, S. L., & Feingold, E. (2021). Analyses stratified by maternal age and recombination further characterize genes associated with maternal nondisjunction of chromosome 21. *Prenat Diagn*, 41(5), 591-609. <https://doi.org/10.1002/pd.5919>
- White, J. D., Indencleef, K., Naqvi, S., Eller, R. J., Hoskens, H., Roosenboom, J., Lee, M. K., Li, J., Mohammed, J., Richmond, S., Quillen, E. E., Norton, H. L., Feingold, E., Swigut, T., Marazita, M. L., Peeters, H., Hens, G., Shaffer, J. R., Wysocka, J., . . . Claes, P. (2021). Insights into the genetic architecture of the human face. *Nat Genet*, 53(1), 45-53. <https://doi.org/10.1038/s41588-020-00741-7>
- Mukhopadhyay, N., Feingold, E., Moreno-Urbe, L., Wehby, G., Valencia-Ramirez, L. C., Restrepo Muneton, C. P., Padilla, C., Deleyiannis, F., Christensen, K., Poletta, F. A., Orioli, I. M., Hecht, J. T., Buxo, C. J., Butali, A., Adeyemo, W. L., Vieira, A. R., Shaffer, J. R., Murray, J. C., Weinberg, S. M., . . . Marazita, M. L. (2022). Genome-wide association study of multiethnic nonsyndromic orofacial cleft families identifies novel loci specific to family and phenotypic subtypes. *Genet Epidemiol*. <https://doi.org/10.1002/gepi.22447>

Recent invited presentations

- Big data challenges in genomics: National University of Singapore conference on statistical methods in genetic/genomic studies, Singapore, 2022
- Genetic epidemiology of Down syndrome: International Down syndrome conference, Kolkata India, 2020
- Genetic epidemiology of Down syndrome: International Origins of Aneuploidy conference, Paris, 2019
- Big data challenges in genomics: University of Wisconsin Department of Biostatistics seminar, 2019
- Genetic epidemiology of Down syndrome: University of Michigan Department of Human Genetics seminar, 2018

Honors and awards

- MIT undergraduate thesis awarded the DeWitt Wallace Prize for Scientific Writing for the Public, 1985
- Nominee for the MIT Alumnae Association Senior Academic Award, given to the most academically outstanding graduating woman, 1985
- Nine local and national “best paper” and “best student” awards for my trainees, 2005–2016
- Fellow of the American Statistical Association, 2010

Teaching, Mentoring, and Curriculum Development Highlights

Recent classroom teaching

- Risk calculation for genetic counselors (1 credit course, annually)

- Introductory biostatistics (discussion section leader, fall 2020)
- Public health communications (developed course, taught portions in 2018–present)

New programs developed or co-developed

- MS in Genome Bioinformatics
- MPH in Public Health Genetics
- Certificate in Public Health Genetics
- Summer Edge in Global and Public Health (summer undergraduate program)
- Summer Institute in Biostatistics (NIH funded summer undergraduate program)
- BS in Public Health

Mentoring

- 18 PhD graduates in human genetics, biostatistics, and other fields
- 11 MPH and MS graduates
- 13 postdoctoral trainees
- Service on dozens of doctoral and masters committees

Non-credit teaching

- Numerous genetics and genomics short courses (e.g. Jackson Labs most years from 2000–2016)
- Numerous undergraduate and high school talks on genetics; race and ethnicity in biomedical research; and big data
- Co-curricular and orientation programming on diversity, equity, and inclusion issues
- Co-curricular programming on scientific communication

Service Highlights

Service to the profession

- Accreditation site visitor for the Council on Education in Public Health (seven schools since 2015)
- Other external advisory reviews at University of Wisconsin, University of Kentucky, University of South Carolina, University of Maryland
- Association of Schools and Programs in Public Health Academic Affairs Section co-chair 2015–2017
- NIH grant reviewer. Approximately two panels per year in genetics and bioinformatics. Regular study section member 2006–2014
- External Advisory Board, Center of Excellence in Minority Health and Health Disparities, Jackson State University College of Public Service 2013–2018
- Biometrics editorial board 2006–2010
- American Journal of Human Genetics editorial board 2002–2005

Recent service to the university

- University of Pittsburgh reaccreditation executive committee 2020-2022
- Provost's Data Science Task Force 2020
- University strategic planning infrastructure subcommittee 2020
- Research re-start logistics subcommittee 2020
- Reimagining Pitt education graduate studies subcommittee co-chair 2020
- University Council on Graduate Studies (university-level curriculum committee) 2005–2018

Service to the community

- Approximately two talks per year to K-12 groups on genetics, big data, and race and ethnicity in biomedical research

Full Research Detail

Honors

1985	MIT Undergraduate thesis awarded the DeWitt Wallace Prize for Scientific Writing for the Public			
1985	Nominee for the MIT Alumnae Association Senior Academic Award, given to the most academically outstanding graduating woman			
2005	Delta Omega Public Health Honor Society			
2010	Fellow of the American Statistical Association			

Grants and contracts (current)

Role	Years	Title	Agency and number	PI
Biostatistician	2019-2022	Epidemiology of Glycemic Exposure and Complication Development in Type 1 Diabetes	American Diabetes Association	Miller
Co-investigator	2016-2022	Search for the Alzheimer's Genes	NIH AG030653	Kamboh
Co-investigator	2021-2025	The Genetic Architecture of Alzheimer's Disease Proteinopathies	NIH R01 AG064877	Kamboh
Co-investigator	2020-2025	The Alzheimer's Biomarkers Consortium-Down Syndrome	NIH U19 AG068054	Handen
Subcontract PI	2022-2026	A Unified High Performance Web Service for Systems Genetics and Precision Medicine	NIH R01 GM123489	Prins, Sen
Co-investigator	2021-2026	Mild Cognitive Impairment: a Prospective Community Study	NIH R37 AG023651	Ganguli

Grants and contracts (past)

Role	Years	Title	Agency and number	PI
PI	1996	Emory University Teaching Fund Award	internal university award	Eleanor Feingold
Subcontract PI	1994-2000	Statistical Methods for Identity-by-Descent Maps	NIH R01 HG 00848	David Siegmund (Stanford)
Subcontract PI	2000-2005	A Program of Research in Population Cytogenetics	NIH R01 HD 21341	Terry Hassold (Case Western)
Biostatistician	2003-2007	Neocortical Transcriptome Changes in Schizophrenia	NIH	Karoly Mirnics
Co-investigator	1995-2000	Mechanisms of Human Chromosome Abnormality	NIH	Stephanie Sherman (Emory)
Biostatistician	2001-2002	Cytotoxic Lymphocytes and HSV – Corneal Lesions	NIH	Robert Hendricks
Biostatistician	2001-2004	Genetic and Inflammatory Markers of Sepsis	NIH	Derek Angus

Biostatistician	2000-2005	Genetic Studies of Lymphedema	NIH	David Finegold
Co-PI	1998-2006	A Robust Integrated System for Mapping Complex Diseases	NIH R01 MH 64205	Daniel Weeks
PI	2001-2009	Human QTL Mapping with Selected Samples	NIH R01 HG02374	Eleanor Feingold
Subcontract PI	2000-2010	Trisomy 21: Risk Factors for Chromosome Nondisjunction	NIH R01 HD38979	Stephanie Sherman (Emory University)
Biostatistician	2007-2010	Modeling in vivo Protein DNA Interactions from High Throughput Data MP1/1	NIH R01 LM009657	Takis Benos
Faculty member	2002-2009	India-US Research Training Program in Genetics	NIH (Fogarty) D43 TW06180	Daniel Weeks
Biostatistician	2003-2010	Inflammation and Ovarian Cancer	NIH R01 CA095023	Roberta Ness
Biostatistician	2006-2009	Familial Susceptibility for Lymphedema Secondary to Breast Cancer Therapy	American Cancer Society RSG-06-212-01-LR	David Finegold
Biostatistician	2006-2009	Inflammatory Markers and Breast Cancer Risk	U.S. Army W81XWH-06-1-0533	Brenda Diergaarde
Faculty member	2006-2009	Developing Outreach Materials for AP Students and Their Teachers: Case Studies in Collaborative Research	American Statistical Association Biometrics Section	Roslyn Stone
Biostatistician	2007-2009	Transcriptome Analysis in Major Depression	NIH R01 MH077159	Etienne Sibille
Biostatistician	2007-2009	Variation in Ara-C Pathway Genes and Treatment Outcomes in AML	NIH R01 CA119142	Rakesh Goyal
Subcontract PI	2007-2010	Genome-wide Association for Premature Birth (GENEVA)	NIH U01 HG004423	Jeff Murray (Iowa)
Biostatistician	2007-2011	Dental Caries: Whole Genome Association and Gene X Environment Interaction (GENEVA)	NIH U01 DE018903	Mary Marazita (Pittsburgh)
Subcontract PI	2007-2012	Genetics of Congenital Heart Defects	NIH R01 HL083300	Roger Reeves (Johns Hopkins)
PI	2011-2012	Psychosis in Alzheimer's Disease: The Role of DNA Copy Number Variation	CAPH	Feingold
Biostatistician	2007-2012	Modeling in vivo Protein DNA Interactions from High Throughput Data MP1/1	NIH R01 LM009657	Benos
Biostatistician	2010-2013	Head and Neck Cancer SPORE	NIH 2P50 CA097190	Grandis

Co-investigator	2011-2013	Understanding Genetic Basis of Dental Caries via Integrative Genomic Approaches	NIH R03DE022093	Zhao (Vanderbilt)
PI	2011-2014	Statistical Modeling and Genetic Epidemiology of Dental Caries in GWAS Analysis	NIH R03 DE021425	Feingold
Joint PI	2103	Trisomy 21: Risk Factors for Chromosome Nondisjunction	CIDR X01 HG007493	Sherman and Feingold
Joint PI	2013	Genetics of Orofacial Clefts and Related Phenotypes	CIDR X01-HG007485	Marazita and Feingold
Joint PI	2014	Genetic Analysis of Quantitative Facial Variation	CIDR X01 HG007821	Marazita, Feingold, Weinberg
Joint PI	2010-2015	Trisomy 21: Risk Factors for Chromosome Nondisjunction	NIH R01 HD38979	Sherman and Feingold
Biostatistician	2010-2014	Gaucher Disease DS3 Validation Study	Genzyme	Weinreb
Instructor	2010-2016	Summer Institute for Training in Biostatistics	NIH 1T14HL09777	Stone
Co-investigator	2012-2017	Deep Resequencing of Candidate Regions in Late-onset Alzheimers Diseases	NIH R01 AG041718	Kamboh
Faculty	2015	Preparing Dental Students to Serve in Rural and Underserved Areas of Western PA	HRSA	Weyant
Co-investigator	2014-2017	Modeling childhood dental caries patterns for genomic and epigenetic analysis	NIH R03DE024264	Shaffer
Joint PI	2016	Genomic Studies of Orofacial Cleft Birth Defects (Gabriella Miller Kids First Program)	NIH X01 HL132363	Marazita and Feingold
Joint PI	2017	Genomic studies of oral health and disease	NIH X01 HG009878	Shaffer and Feingold
Joint PI	2016-2019	Analysis of whole genome sequence data in orofacial clefts	NIH R03 DE026469	Marazita and Feingold
Joint PI	2017	Genomic Studies of Orofacial Cleft Birth Defects in Latin American Families (Gabriella Miller Kids First Program)	NIH X01 HL136465	Marazita and Feingold
Co-investigator	2014-2019	Facebase Management and Coordination Hub	NIH U01 DE020057	Murray
Co-investigator	2014-2020	Extending the Phenotype of Nonsyndromic Orofacial Clefts	NIH R01 DE016148	Marazita
Biostatistician	2016-2020	Re-Evaluating the Role of HDL in Coronary Artery Disease	NIH R01 HL130153	Costacou
Co-investigator	2016-2021	Neurodegeneration in Aging Down Syndrome	NIH U01 AG051406	Handen

Co-investigator	2017-2022	The Genetic Architecture of Human Facial Morphology	NIH R01 DE027023	Weinberg and Shaffer
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Research seminars and lectures

Stochastic process models for genetic mapping

- 1992 MSRI Workshop on Statistical Methods in Molecular Biology, contributed talk
- 1992 Annual WNAR meeting, contributed talk
- 1992 UC Berkeley Statistical Aspects of Molecular Biology Seminar Series
- 1992 Stanford University Biostatistics Seminar Series
- 1993 Stanford University Statistics Department Seminar
- 1994 University of Michigan Biostatistics Department Seminar
- 1994 Institute for Mathematics and its Applications Workshop on Molecular Biology, invited talk
- 1994 Cornell Math Sciences Institute Workshop for Women in Probability, contributed talk
- 1994 American Statistical Association Atlanta chapter, invited talk
- 1994 Georgia Institute of Technology Statistics Seminar Series
- 1994 National Center for Human Genome Research, invited talk
- 1994 American Society for Human Genetics, contributed talk
- 1997 Program in Mathematics and Molecular Biology V, invited talk
- 1998 Carnegie Mellon University Department of Statistics Seminar
- 1998 University of Pittsburgh Department of Biostatistics Seminar
- 1999 University of Pittsburgh Department of Statistics Seminar

Allele-sharing statistics for mapping genes for recessive traits

- 1996 Emory/CDC Genetic Epidemiology Seminar Series
- 1996 Rockefeller University, Human Genome Research Center Seminar Series
- 1997 University of Pittsburgh Human Genetics Department Seminar

Statistical methods for gene mapping in small isolated populations

- 1997 Emory University Statistical Methods in Genetics Seminar Series
- 1997 Institute for Mathematics and its Applications, invited talk
- 1997 American Society of Human Genetics, poster
- 1997 University of Pittsburgh Department of Human Genetics Seminar
- 1998 American Statistical Association annual meeting, invited talk

Down syndrome, trisomy and statistical methods for trisomic data

- 1996 UC Berkeley Statistical Aspects of Molecular Biology Seminar Series
- 1998 American Society of Human Genetics, poster
- 1998 University of Pittsburgh Department of Environmental and Occupational Health Seminar
- 1999 American Society of Human Genetics, contributed talk
- 1999 Magee Women's Research Institute Seminar Series
- 2002 American Society of Human Genetics, poster
- 2004 International Biometric Society/Australian Statistical Conference, invited talk
- 2007 UCLA Department of Human Genetics Seminar Series
- 2009 West Bengal University of Technology, Kolkata, India
- 2009 University of Pittsburgh Department of Human Genetics Seminar
- 2017 International Origin of Aneuploidy meeting, Barcelona, Spain
- 2018 University of Pittsburgh Department of Human Genetics Seminar Series
- 2018 University of Michigan Department of Human Genetics

Statistical methods for analysis of large-scale gene expression (microarray) data

- 2000 University of Pittsburgh Senior Vice-Chancellor's Research Seminar
- 2001 University of Pittsburgh Distinguished Lecture Series in Bioinformatics
- 2001 Annual ENAR meeting, contributed talk
- 2002 Carnegie Mellon University Department of Statistics, special lecture
- 2002 University of Pittsburgh Department of Biostatistics Seminar
- 2003 Annual ENAR meeting, invited talk
- 2003 University of Pittsburgh Department of Environmental and Occupational Health Seminar

Methods for efficient simulation of p-values in linkage analysis

- 2004 MSRI Workshop on the Genetics of Complex Diseases, invited talk

Statistical methods for quantitative trait locus (QTL) mapping

- 2000 University of Chicago Department of Statistics Seminar
- 2000 Wellcome Trust Advanced Course in Human Genome Analysis
- 2000 Jackson Labs Short Course in Analysis of Complex Phenotypes
- 2001 Short Course in Statistical Genetics for Obesity and Nutrition Researchers
- 2002 National University of Singapore Institute for Mathematical Sciences, Program on Post-Genome Knowledge Discovery
- 2002 University of Alabama at Birmingham
- 2002 Jackson Labs Short Course in Analysis of Complex Phenotypes
- 2002 Johns Hopkins University Department of Biostatistics Seminar
- 2003 University of Michigan Department of Biostatistics Seminar
- 2003 Jackson Labs Short Course in Analysis of Complex Phenotypes
- 2004 Annual ENAR meeting, invited talk
- 2004 Jackson Labs Short Course in Analysis of Complex Phenotypes
- 2005 Washington University in St. Louis Department of Biostatistics Seminar
- 2005 North Carolina State University, Bioinformatics Seminar Series
- 2005 Joint Statistical Meetings, invited talk
- 2005 Jackson Labs Short Course in Analysis of Complex Phenotypes
- 2006 Sloan-Kettering Department of Biostatistics Seminar Series
- 2006 Jackson Labs Short Course in Analysis of Complex Phenotypes
- 2006 University of Alabama Birmingham NIAMS Short Course in Statistical Genetics
- 2007 Jackson Labs Short Course in Analysis of Complex Phenotypes

Statistical methods for GWAS and sequencing studies

- 2005 Emory University Department of Genetics Seminar
- 2006 University of Pittsburgh Department of Genetics Seminar
- 2006 George Washington University Department of Statistics Seminar
- 2007 Oregon Health Sciences University Department of Human Genetics Seminar Series
- 2007 Food and Drug Administration, invited talk
- 2007 Jackson Labs Short Course in Analysis of Complex Phenotypes
- 2008 University of Pittsburgh Department of Biostatistics Seminar
- 2009 TCG-ISI Centre for Population Genomics, Kolkata, India
- 2010 Albert Einstein College of Medicine Biostatistics Division Seminar
- 2012 University of Wisconsin Department of Biostatistics Seminar
- 2012 University of Alabama at Birmingham Department of Biostatistics Seminar
- 2013 Complex Trait Community Annual Meeting, keynote talk
- 2013 University of Alabama at Birmingham Short Course in Statistical Genetics
- 2013 Jackson Labs Short Course in Systems Biology
- 2014 Regeneron Pharmaceuticals
- 2014 Jackson Labs Short Course in Systems Biology
- 2014 University of Michigan, Center for Statistical Genetics

2014 Emory University, Statistical Genetics Journal Club
2015 Jackson Labs Short Course in Systems Biology
2016 Jackson Labs Short Course in Systems Biology
2017 University of Arkansas, Department of Epidemiology Seminar
2018 International conference keynote speaker, University of Calcutta, India
2022 National University of Singapore conference on statistical methods in genetic/genomic studies

Statistical methods for studying genetic copy number variation

2007 University of Pittsburgh Department of Human Genetics Retreat
2007 Genome Institute of Singapore, invited talk
2008 Biometric Society (ENAR) Meeting, invited talk
2009 TCG-ISI Centre for Population Genomics, Kolkata, India

Dental genetics

2010 American Association for Dental Research, late-breaking research session

Big data

2016 Pitt Public Health “Food for Thought” series
2017 University of Pittsburgh Department of Critical Care Medicine
2018 Bijoy Krishna Girls' College, Kolkata, India

Administrative topics

2016 University of Pittsburgh Provost’s annual assessment conference

COVID phylogeny

2020 University of Pittsburgh “COVID Conversations” series

Refereed publications

- Feingold, E. (1993). Markov processes for modeling and analyzing a new genetic mapping method. *Journal of Applied Probability*, 30(4), 766-779.
- Feingold, E., Brown, P. O., & Siegmund, D. (1993). Gaussian models for genetic linkage analysis using complete high-resolution maps of identity by descent. *Am J Hum Genet*, 53(1), 234-251. <https://www.ncbi.nlm.nih.gov/pubmed/8317489>
- Feingold, E., Lamb, N. E., & Sherman, S. L. (1995). Methods for genetic linkage analysis using trisomies. *Am J Hum Genet*, 56(2), 475-483. <https://www.ncbi.nlm.nih.gov/pubmed/7847384>
- Griffin, D. K., Abruzzo, M. A., Millie, E. A., Sheean, L. A., Feingold, E., Sherman, S. L., & Hassold, T. J. (1995). Non-disjunction in human sperm: evidence for an effect of increasing paternal age. *Hum Mol Genet*, 4(12), 2227-2232. <https://doi.org/10.1093/hmg/4.12.2227>
- Griffin, D. K., Abruzzo, M. A., Millie, E. A., Feingold, E., & Hassold, T. J. (1996). Sex ratio in normal and disomic sperm: evidence that the extra chromosome 21 preferentially segregates with the Y chromosome. *Am J Hum Genet*, 59(5), 1108-1113. <https://www.ncbi.nlm.nih.gov/pubmed/8900240>
- Lamb, N. E., Feingold, E., & Sherman, S. L. (1996). Statistical models for trisomic phenotypes. *Am J Hum Genet*, 58(1), 201-212. <https://www.ncbi.nlm.nih.gov/pubmed/8554057>
- Nolin, S. L., Lewis, F. A., 3rd, Ye, L. L., Houck, G. E., Jr., Glicksman, A. E., Limprasert, P., Li, S. Y., Zhong, N., Ashley, A. E., Feingold, E., Sherman, S. L., & Brown, W. T. (1996). Familial transmission of the FMR1 CGG repeat. *Am J Hum Genet*, 59(6), 1252-1261. <https://www.ncbi.nlm.nih.gov/pubmed/8940270>
- Cope, T. C., Sokoloff, A. J., Dacko, S. M., Huot, R., & Feingold, E. (1997). Stability of motor-unit force thresholds in the decerebrate cat. *J Neurophysiol*, 78(6), 3077-3082. <https://doi.org/10.1152/jn.1997.78.6.3077>

- Durham, L. K., & Feingold, E. (1997). Genome scanning for segments shared identical by descent among distant relatives in isolated populations. *Am J Hum Genet*, 61(4), 830-842. <https://doi.org/10.1086/514891>
- Feingold, E., & Siegmund, D. O. (1997). Strategies for mapping heterogeneous recessive traits by allele-sharing methods. *Am J Hum Genet*, 60(4), 965-978. <https://www.ncbi.nlm.nih.gov/pubmed/9106544>
- Lamb, N. E., Feingold, E., Savage, A., Avramopoulos, D., Freeman, S., Gu, Y., Hallberg, A., Hersey, J., Karadima, G., Pettay, D., Saker, D., Shen, J., Taft, L., Mikkelsen, M., Petersen, M. B., Hassold, T., & Sherman, S. L. (1997). Characterization of susceptible chiasma configurations that increase the risk for maternal nondisjunction of chromosome 21. *Hum Mol Genet*, 6(9), 1391-1399. <https://doi.org/10.1093/hmg/6.9.1391>
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- Li, J., Glover, J. D., Zhang, H., Peng, M., Tan, J., Mallick, C. B., Hou, D., Yang, Y., Wu, S., Liu, Y., Peng, Q., Zheng, S. C., Crosse, E. I., Medvinsky, A., Anderson, R. A., Brown, H., Yuan, Z., Zhou, S., Xu, Y., . . . Wang, S. (2022). Limb development genes underlie variation in human fingerprint patterns. *Cell*, 185(1), 95-112 e118. <https://doi.org/10.1016/j.cell.2021.12.008>
- Mukhopadhyay, N., Feingold, E., Moreno-Urbe, L., Wehby, G., Valencia-Ramirez, L. C., Restrepo Muneton, C. P., Padilla, C., Deleyiannis, F., Christensen, K., Poletta, F. A., Orioli, I. M., Hecht, J. T., Buxo, C. J., Butali, A., Adeyemo, W. L., Vieira, A. R., Shaffer, J. R., Murray, J. C., Weinberg, S. M., . . . Marazita, M. L. (2022). Genome-wide association study of multiethnic nonsyndromic orofacial cleft families identifies novel loci specific to family and phenotypic subtypes. *Genet Epidemiol*. <https://doi.org/10.1002/gepi.22447>

Book chapters

- Benos PV, Corcoran DL, Feingold E. “Web-Based Identification of Evolutionary Conserved DNA cis-Regulatory Elements.” In: *Methods in Molecular Biology* (Bergman N, editor), Humana Press, Inc., Totowa, New Jersey, 2007
- Feingold E, “Common and Complex Traits.” In *The Oxford Handbook of Genetic Counseling*, to appear 2022

Invited articles, review articles, and editorials

- Feingold E. Methods for Linkage Analysis of Quantitative Trait Loci in Humans. *Theoretical Population Biology* 60:167-180, 2001
- Feingold E. Regression-Based QTL Mapping in the 21st Century. *American Journal of Human Genetics* 71:217-222, 2002
- Broman KW, Feingold E. SNPs Made Routine. *Nature Methods* 1:104-105, 2004
- Cheung VG, Sherman SL, Feingold E. Genetic control of Hotspots. *Science* 327:791-792, 2010

Non-academic publishing

- “Editing genes shouldn’t be too scary – unless they are the ones that get passed to future generations.” *The Conversation*, 2019

Publicly-distributed software

- QTL-ALL (Quantitative Trait Locus - Association and Linkage Library) version 1.0 is a tool for quantitative trait locus linkage analysis using nuclear family data. It combines comprehensive data checking and preparation procedures with a large set of QTL-mapping statistics implemented in C. Statistics are available for population samples and for various types of selected samples. Many previously published statistics are included, as well as some new score statistic variants. It is available at <http://watson.hgen.pitt.edu/register/>. 2007
- SNP Caller is a set of routines for making genotype calls from raw intensity data using mixture models for disomic or trisomic data. It is available at <http://watson.hgen.pitt.edu/register/>. 2007

Full Teaching and Mentoring Detail

Emory University teaching

Spring 1994	Introduction to Biostatistics 503	Sole instructor for 2 hours of lecture per week.	25 students
Fall 1994	Probability Theory I Biostatistics 510	Sole instructor for 4 hours of lecture per week.	15 students
Spring 1995	Statistical Inference I Biostatistics 511	Sole instructor for 4 hours of lecture per week.	15 students
Spring 1996 Spring 1997	Survey of Applied Statistics for the Health Sciences Biostatistics 504	Sole instructor for 4 hours of lecture per week.	20 students
Spring 1996 Spring 1997	Design and Analysis for the Biological Sciences Biostatistics 505	Developed course. Sole instructor for 4 hours of lecture per week.	10 students

University of Pittsburgh teaching

Fall 1998	Quantitative Genetics Human Genetics 203	Gave approximately 30% of lectures in 3-hour-per-week course	10 students
Spring 2003 Spring 2004	Statistical Methods in Bioinformatics Human Genetics 2024	Gave approximately 35% of lectures in 2-hour course.	15 students

Fall 1997 Fall 2005	Linkage Analysis in Human Genetics Human Genetics 2048	Gave approximately 30% of lectures in 3-hour-per-week course.	10 students
Spring 2006	Bioinformatics of Gene Regulation Computational Biology 2020	Gave approximately 15% of lectures in 2-hour course.	15 students
Fall 1998, Fall 1999, Fall 2000, Fall 2001, Fall 2002, Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007	Molecular and Human Genetics, School of Medicine	Helped organize curriculum and instructors for small-group sessions for medical students. Taught 4 – 8 hours of small-group sessions each year.	
Fall 2007, Fall 2015, Fall 2017	Introduction to Gene Mapping Human Genetics 2029	Taught approximately half of this 2- hour course.	12 students
Spring 2008, Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Summer 2022	Risk Analysis in Genetic Counseling Human Genetics 2039	Sole instructor for 1-credit course.	15 students
Summer 2006 Summer 2007 Summer 2008 Summer 2009	Scientific Ethics School of Medicine	Taught 3 – 10 hours of discussion sessions.	10 students
Spring 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010	Essentials of Public Health PUBLHT 2011	Supervised work of Human Genetics students on projects for this course.	2 – 6 students
Summer 2013	Summer Edge in Public Health and Global Health	Developed summer undergraduate program in public health and co-taught internship course as part of the program	8 students
Spring 1998, Spring 1999, Spring 2000, Spring 2001, Spring 2002, Spring 2003, Spring 2004, Spring 2005, Spring 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014	Human Population Genetics Human Genetics 2022	Gave 40-90% of lectures each year. Course coordinator most years. 3-hour- per-week course (1998 – 2007) 2-hour-per-week course (2008 - 2010)	20 – 40 students
1997- 2014	Human Genetics Journal Club	Organizer one semester per year in most years.	15 – 30 students

Summer 2010, Summer 2011, Summer 2012, Summer 2013, Summer 2014, Summer 2015	SIBS Department of Biostatistics	Gave 4-8 lectures and supervised student research projects in undergraduate summer program.	20 students
Fall 2018, Spring 2019, regular guest lectures subsequently	Public Health Communication Public Health 2034	Developed new 2-credit communication course for all MPH students to meet new CEPH competencies. Co-taught two sections in Fall 2018, guest lecturer for two sections in Spring 2019.	35 students

Non-credit university teaching

Summer 1998	Statistical Genetics Reading Group Organized and ran a weekly discussion group on linkage analysis literature.
Summer 1999	Statistical Genetics Reading Group Organized and gave a series of weekly lectures on allele-sharing literature.
Summer 2001	Statistical Genetics Reading Group Organized reading group on statistical methods for microarray data analysis.
Fall 2003	Statistical Genetics Reading Group Organized and ran a weekly discussion group on proteomics.
2000-2010	University of Pittsburgh Statistical Genetics Reading Group Organizer during several semesters over the years.
2005-2009	University of Pittsburgh Survival Skills and Ethics Series Leader of “Ethics Over Lunch” discussions for graduate students and postdocs (approximately once per year).
1998-2014, 2018	University of Pittsburgh Statistical Genetics Journal Club Organizer during several semesters over the years.
2011-2013	Plunge Into Public Health Ran scientific ethics workshops at new student orientation.
2011-2015	Scientific Poster Workshop Gave two workshops per year on scientific communication for public health students.
2012-2016	University of Pittsburgh Summer Health Scholars Program Gave one lecture each summer to high school program.
2016-2018	University of Pittsburgh Summer Edge Program Gave one lecture each summer to undergraduate program.
2016-2018	Plunge Into Public Health Ran diversity and inclusion workshops at new student orientation.

Extra-university short course teaching

2000	Wellcome Trust Advanced Course in Human Genome Analysis, invited speaker.
2001	University of Alabama Birmingham Short Course in Statistical Genetics for Obesity and Nutrition Researchers, instructor.
2002	National University of Singapore Institute for Mathematical Sciences, Program on Post-Genome Knowledge Discovery, invited speaker.
2006	University of Alabama Birmingham NIAMS Short Course in Statistical Genetics, instructor.
2000, 2002, 2003, 2004, 2005, 2006, 2007, 2013, 2014, 2015, 2016	Jackson Labs Short Course in Analysis of Complex Phenotypes, instructor.
2003, 2004, 2007, 2009	Workshop on Genetic Epidemiological Methods for Dissection of Complex Human Traits, TCG-ISI Centre for Population Genomics, Kolkata, India, instructor

2013	University of Alabama Birmingham Short Course in Statistical Genetics, instructor.			
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Major advisor for graduate student essays, theses, and dissertations

1997	Laura Gordon		MS Biostatistics Emory	Statistical Methods for Genetic Mapping with Phase-Unknown Data
1997	Chandra Owens		MS Biostatistics Emory	Familial Effects on Genetic Recombination
1998	Belinda San Juan		MPH Biostatistics Emory	Investigating the Paternal Age Effect on Human Sperm Disomy in Chromosomes 1, 8, and the Sex Chromosomes
1998-2000	Kai Yu	Senior Investigator, National Cancer Institute	PhD Biostatistics Pittsburgh	Statistical Methods for Analyzing Tetrad Crossover Probabilities
2000-2002	Zhiying Xu		MS Biostatistics Pittsburgh	Statistical Methods for Testing Genotype-Phenotype Association in Trisomic Data
2001-2003	Yan Lin	Associate Professor, University of Pittsburgh	MS Biostatistics Pittsburgh	Bayesian Analysis of Microarray Data
2000-2004	Jin Szatkiewicz	Associate Professor, University of North Carolina	PhD Biostatistics Pittsburgh	Statistical Methods for Quantitative Trait Mapping with Selected Samples
2003-2007	Yan Lin	Associate Professor, University of Pittsburgh	PhD Biostatistics Pittsburgh	Statistical Issues in Family-Based Genetic Association Studies with Application to Congenital Heart Defects in Down Syndrome
2004-2007	Xiaojing Wang	Alexion Pharmaceuticals	MS Biostatistics Pittsburgh	A Comparison of Principle Component Analysis and Factor Analysis for Quantitative Phenotypes on Family Data
2005-2008	Samsiddhi Bhattacharjee	Associate Professor, National Institute of Biomedical Genomics, Kolkata India	PhD Human Genetics Pittsburgh	Variance Component Score Statistics for QTL Mapping
2005-2010	Chia-Ling Kuo	Associate Professor, University of Connecticut	PhD Biostatistics Pittsburgh	Topics in Statistical Methods for Human Gene Mapping
2005-2010	Soo Yeon Cheong		PhD Biostatistics Pittsburgh	Statistical Methods and Designs for Raw Genotype Data
2008-2010	Stacy Lloyd	Instructor, Baylor College of Medicine	PhD Human Genetics Pittsburgh	An Analysis of Estrogen Metabolism and Breast Cancer Risk

2010	Tara Capece		MPH Human Genetics Pittsburgh	Purification and Immunological Characterization of Receptor-Associated Protein (RAP)
2010	Lauren Hudak		MPH Human Genetics Pittsburgh	The Importance of Research and Advocacy for Mitochondrial Diseases
2010- 2011	Chang-Sook Hong	Assistant Professor, University of Pittsburgh	MS Biostatistics Pittsburgh	Studies of Association of Environmental Risk Factors in Down Syndrome
2009- 2012	Xiaojing Zheng	Associate Professor, University of North Carolina	PhD Biostatistics Pittsburgh	Copy Number Variants in Genetic Association Studies
2012	Praewpannarai Buddadhumaruk	Biostatistician, University of Pittsburgh	MS Biostatistics Pittsburgh	A Case-Case Genome- Wide Association Study of Trisomy 21
2009- 2013	Ferdouse Begum	Biostatistician, Food and Drug Administration	PhD Biostatistics Pittsburgh	Genetics of Meiotic Recombination: Methods and Applications
2009- 2013	Umut Ozbek (co- advisor)	Eli Lilly	PhD Biostatistics Pittsburgh	Statistical Methods for Recovering GWAS Data
2011- 2013	Harrison Brand (co-advisor)	Assistant Professor, Harvard University	PhD Human Genetics, Pittsburgh	A Haplotype-Based Permutation Approach in Gene-Based Testing
2011- 2015	Zhen Zeng	Biostatistician, Merck	PhD Biostatistics, MS Human Genetics, Pittsburgh	A Pipeline for Classifying Close Family Relationships with Dense SNP Data and Putative Pedigree Information
2012- 2015	Hui-Min Lin	Associate Director of Biostatistics, Blueprint Medicines	PhD Biostatistics Pittsburgh	Behavior of Statistics for Genetic Association in a Genome-Wide Scan Context
2011- 2015	Deyana Lewis	Postdoctoral Fellow, NIH	PhD Human Genetics Pittsburgh	Candidate Genes and Replication Studies of Dental Caries
2010- 2016	Nandita Mukhopadhyay	Staff Scientist, University of Pittsburgh School of Dental Medicine	PhD Human Genetics Pittsburgh	Computational Methods for Calculating Meiotic Recombination from Nuclear Pedigrees
2015- 2016	Chris Freyder	Actuary, Highmark	MS Biostatistics, Pittsburgh	Using Linear Regression and Mixed Models to Predict Health Care Costs after an Inpatient Event
2013- 2017	Jenna Carlson	Assistant Professor, University of Pittsburgh	PhD Biostatistics Pittsburgh	Methods for Family-Based Desgns in Genetic Epidemiology Studies

2014-2021	Jon Chernus	Lecturer, University of Pittsburgh	PhD Human Genetics Pittsburgh	Methods and Genome-Wide Association Study for Meiotic Nondisjunction of Chromosome 21
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Other graduate student papers supervised (complete citations appear in the research section)

Neil Lamb	Vice President for Educational Outreach, Hudson-Alpha Institute for Biotechnology	PhD	Genetics	Emory
	<ol style="list-style-type: none"> 1. "Methods for Genetic Linkage Analysis Using Trisomies" (1995). 2. "Statistical Models for Trisomic Phenotypes" (1996). 3. "Estimating Meiotic Exchange Patterns from Recombination Data: an Application to Humans" (1997). 			
L. Kathryn Durham	Founder and Director, Viva Analytics	PhD	Biostatistics	Emory
	<ol style="list-style-type: none"> 1. "Genome Screening for Segments Shared Identical by Descent Among Distant Relatives in Isolated Populations" (1997). 			
Amanda Savage Brown	Clinical Social Worker, ASB Wellness	PhD	Genetics	Emory
	<ol style="list-style-type: none"> 1. "Multipoint Estimation of Genetic Maps for Human Trisomies with One Parent or Other Partial Data" (2000). 			

Service on masters and doctoral committees

1994-1996	Neil Lamb	PhD	Genetics	Emory
1994-1997	Allison Ashley-Koch	PhD	Genetics	Emory
1996-1997	L. Kathryn Durham	PhD	Biostatistics	Emory
1996-1997	Maya Sternberg	PhD	Biostatistics	Emory
1996-1997	David Dunson	PhD	Biostatistics	Emory
1998	Suzanne O'Neill	MS	Human Genetics	Pittsburgh
1999	Heather Shappell	MS	Genetic Counseling	Pittsburgh
1999	Claire Noll	MS	Genetic Counseling	Pittsburgh
1995-1999	Amanda Savage Brown	PhD	Genetics	Emory
1997-1999	Michael Barmada	PhD	Human Genetics	Pittsburgh
2000	Paulien Van Galen	MS	Genetic Counseling	Pittsburgh
1998-2000	Brion Maher	PhD	Human Genetics	Pittsburgh
2001	Julie Lindner	MS	Genetic Counseling	Pittsburgh
1998-2001	Suzanne O'Neill	PhD	Human Genetics	Pittsburgh
2000-2002	Coleen Damcott	PhD	Human Genetics	Pittsburgh
2000-2002	Susan Moffett	PhD	Human Genetics	Pittsburgh
2001-2002	Jean Dunlap	MS	Genetic Counseling	Pittsburgh
2000-2003	Kim Fowler Kerstann	PhD	Human Genetics	Emory
2003	Suhagi Jasani	MS	Pathology	Pittsburgh
2003	Roxanne Miller	MS	Genetic Counseling	Pittsburgh
2003	Celeste Barkley	MPH		Pittsburgh
2003	Andy Katsiaras	MPH	Epidemiology	Pittsburgh
2003-2004	David Corcoran	MS	Biostatistics	Pittsburgh
2004	Feng Dai	MS	Biostatistics	Pittsburgh
2004	Hui-Ju Tsai	PhD	Human Genetics	Pittsburgh
2004	Lisa Alexander	MPH		Pittsburgh

2004	Nikki Hudak-Fink	MPH	Epidemiology	Pittsburgh
2004	Sameer Kokan	MHA		Pittsburgh
2004	Connie Rogers	MPH	Epidemiology	Pittsburgh
2004	Ashley Smith	MPH	Epidemiology	Pittsburgh
2004	Sandi Elnicki	PhD	Human Genetics	Pittsburgh
2005	Arvind Desari	MS	Human Genetics	Pittsburgh
2005	Ying Jiang	MS	Human Genetics	Pittsburgh
2005-2006	Ina Allicott	MPH	BCHS	Pittsburgh
2005-2006	Stephanie Newton	MS	Genetic Counseling	Pittsburgh
2006	Sarisha Rao	MPH	BCHS	Pittsburgh
2005-2007	Michael Michalec	MS	Human Genetics	Pittsburgh
2006-2007	Brian Shirts	PhD	Human Genetics	Pittsburgh
2006-2007	Xiaojing Zheng	PhD	Human Genetics	Pittsburgh
2004-2007	Feng Dai	PhD	Biostatistics	Pittsburgh
2005-2007	Xiaojing Wang	PhD	Human Genetics	Pittsburgh
2005-2007	Sriram Balu	MS	Human Genetics	Pittsburgh
2005-2007	Amrita Ray	PhD	Human Genetics	Pittsburgh
2007	Sarah Grams	MS	Genetic Counseling	Pittsburgh
2007	Megahn Beck	MS	Genetic Counseling	Pittsburgh
2007	Rebecca Altman	MPH	BCHS	Pittsburgh
2004-2007	Michael Ewing	MS	Human Genetics	Pittsburgh
2005-2008	Dan Handley	PhD	Human Genetics	Pittsburgh
2005-2008	Tiffany Oliver	PhD	Human Genetics	Emory
2005-2008	David Corcoran	PhD	Human Genetics	Pittsburgh
2006-2008	Danielle Iuliano	PhD	Epidemiology	Pittsburgh
2006-2008	Michael Talkowski	PhD	Human Genetics	Pittsburgh
2006-2008	John Shaffer	PhD	Human Genetics	Pittsburgh
2006-2008	Sangita Suresh	PhD	Human Genetics	Pittsburgh
2008	Chunrong Cheng	PhD	Biostatistics	Pittsburgh
2008	Zhibao Mi	PhD	Biostatistics	Pittsburgh
2008	Rick Blakesley	PhD	Biostatistics	Pittsburgh
2006-2009	Pattarana Sae-Chew	PhD	Human Genetics	Pittsburgh
2008-2009	Lindsay Walker	MPH	BCHS	Pittsburgh
2008-2009	Lauren Hache	MS	Genetic Counseling	Pittsburgh
2008-2009	Jennifer Moeller	MS	Genetic Counseling	Pittsburgh
2008-2009	Jason Carson	MS	Human Genetics	Pittsburgh
2009	Jill Currey	MPH	BCHS	Pittsburgh
2009	LaToya Strong	MS	IDM	Pittsburgh
2005-2010	Munil Koppanati	PhD	Human Genetics	Pittsburgh
2005-2010	Maliha Zahid	PhD	Human Genetics	Pittsburgh
2009-2010	Kui Shen	PhD	Computational Biology	Pittsburgh
2008-2010	Yan Du	MS	Human Genetics	Pittsburgh
2007-2010	Khaleelah Glover	MS	Biostatistics	Pittsburgh
2009-2010	Harrison Brand	MPH	Epidemiology	Pittsburgh
2009-2010	Pei-Chen Tsai	MS	Biostatistics	Pittsburgh
2009-2010	You Li	PhD	Human Genetics	Pittsburgh
2010	Kathryn Murphy	MPH	BCHS	Pittsburgh
2010	Sarah Nielsen	MS	Genetic Counseling	Pittsburgh
2010	Rebecca Frye	MPH	BCHS	Pittsburgh
2009-2011	The Minh Luong	PhD	Biostatistics	Pittsburgh
2010-2011	Brian Nolen	PhD	Human Genetics	Pittsburgh

2006-2012	Wan Zhu	PhD	Human Genetics	Pittsburgh
2008-2011	Matt Nicholoau	PhD	IDM	Pittsburgh
2011-2012	Chi Song	PhD	Biostatistics	Pittsburgh
2009-2013	Elizabeth Hight	MS	Genetic Counseling	Pittsburgh
2010-2013	Ming-Chi Tsai	PhD	Computational Biology	CMU
2012-2013	Kristen Qutub	MS	Genetic Counseling	Pittsburgh
2012-2014	Teresa Ruegg	MS	Genetic Counseling	Pittsburgh
2013-2014	Shaowu Tang	PhD	Biostatistics	Pittsburgh
2014	Chijioke Eseonu	MPH	Multidisciplinary	Pittsburgh
2014	Martin Smallidge	MPH	Multidisciplinary	Pittsburgh
2014	Christian Knutsen	MPH	Multidisciplinary	Pittsburgh
2014	Rima El Hajje	MPH	Multidisciplinary	Pittsburgh
2014	Michael Hilton	MPH	Multidisciplinary	Pittsburgh
2014	Joshua Blatter	MPH	Multidisciplinary	Pittsburgh
2014	Serena Liao	PhD	Biostatistics	Pittsburgh
2013-2015	Yerkebulan Talzhanov	PhD	Human Genetics	Pittsburgh
2014-2015	Jia Jia	PhD	Biostatistics	Pittsburgh
2014-2015	Beth Zamboni	PhD	Biostatistics	Pittsburgh
2010-2015	Dafna Benadof	PhD	BCHS	Pittsburgh
2014-2015	Enrique Velazquez	PhD	Human Genetics	Pittsburgh
2015-2016	Laura Cross	MS	Genetic Counseling	Pittsburgh
2016	Catherine Mehta	MPH	Health Policy and Management	Pittsburgh
2014-2016	Samantha Rosenthal	PhD	Human Genetics	Pittsburgh
2015-2016	Ying Shan	PhD	Biostatistics	Pittsburgh
2018-2019	Kylia Williams	PhD	Integrative Systems Biology	Pittsburgh
2020	Lingling Chen	MS	Human Genetics	Pittsburgh
2019-2021	Rehab Sherlala	PhD	Human Genetics	Pittsburgh
2021	Jordan Harper	MS	Human Genetics	Pittsburgh
2020-	Vibha Acharya	PhD	Human Genetics	Pittsburgh
2021-	Ruyu Shi	PhD	Human Genetics	Pittsburgh

Postdoctoral trainees

1998-2000	Bill Forrest	Senior Principal Scientist, Genentech
1999-2003	Kyunghee Song	Statistician, Food and Drug Administration
2000-2003	Karen T. Cuenco	Gates Foundation
1999-2004	Haydar Sengul	
2003-2005	Brian Reck	
2003-2005	Guy Brock	Associate Professor, Ohio State University
2004-2005	Jin Szatkiewicz	Associate Professor, University of North Carolina
2004-2006	Jeesun Jung	Staff Scientist, NIAAA
2004-2006	Indranil Mukhopadhyay	Professor, Indian Statistical Institute
2004-2006	Anbupalam Thalamuthu	Senior Research Fellow, University of New South Wales
2005-2006	Abigail Matthews	Biostatistician, Emmes Corporation
2004-2007	Gina D'Angelo	Statistical science Director, AstraZeneca
2007-2011	John Shaffer	Assistant Professor, University of Pittsburgh

Other mentoring

2000	Stephanie Goode	Rotation student, Interdisciplinary Biomedical Sciences PhD program
2003	Xiaojing Wang	Rotation student, Interdisciplinary Biomedical Sciences PhD program

2003	John Shaffer	Rotation student, Department of Human Genetics
2004	Samsiddhi Bhattacharjee	Rotation student, Department of Human Genetics
2005	Jiangbo Tang	Rotation student, Department of Human Genetics
2005	Michael Ferenczy	Rotation student, Interdisciplinary Biomedical Sciences PhD program.
2013	Brooklyn Stanley	Summer student in TECBio REU program (co-mentor)

Trainee honors

- American Society of Human Genetics award for outstanding pre-doctoral basic research awarded to Neil Lamb for the presentation: Lamb NE, Feingold E, Hassold TJ, and Sherman SL. “Examination of the Underlying Pattern of Chromosomal Exchange in Meioses Leading to Trisomy 21: Evidence for Initiation of All Maternal Errors at Meiosis I” 1996
- American Statistical Association Pittsburgh chapter “Student of the Year” award given to Jin Szatkiewicz 2005
- Biometric Society (ENAR) student paper travel award given to Yan Lin for Lin Y, Tseng GC, Bean LJH, Sherman SL, Feingold E. “Smarter Clustering Methods for High-throughput SNP Genotype Calling” 2007
- American Society of Human Genetics nomination for outstanding pre-doctoral basic research awarded to Tiffany Oliver for the presentation: Oliver T, Feingold E, Yu K, and Sherman SL. “Insight on the Role of Maternal Age and Recombination in Chromosome 21 Nondisjunction” 2007
- American Statistical Association Pittsburgh chapter “Student of the Year” award given to Chia-Ling Kuo 2010
- William J. Gies Award for Biological Research awarded by the IADR/AADR to the paper *Genome-wide association scan for childhood caries implicates novel genes*, J Dent Res. 2013
- American Statistical Association Pittsburgh chapter best poster award given to Zhen Zeng 2014
- Department of Biostatistics Delta Omega best dissertation award given to Zhen Zeng 2016
- Department of Biostatistics outstanding student award to Zhen Zeng 2016
- Department of Biostatistics Delta Omega membership given to Hui-Min Lin 2016

Full Service Detail

Emory University

1994	Vice-chair	Biostatistics Department PhD curriculum revision committee
1994	Member	Committee to develop curriculum for Biostatistics 504
1995-1996	Chair	Biostatistics Department curriculum committee
1996-1997	Chair	Biostatistics Department seminar series
1996-1997	Member	Biostatistics Department student affairs committee

University of Pittsburgh Department of Human Genetics

1998-2002	Chair	Human Genetics Department seminar series
2001	Member	Committee to develop MPH program in Human Genetics
2001-2002	Chair	Search committee for joint Human Genetics/Bioinformatics faculty position
2001-2006	Graduate Program Director	Human Genetics component of the Interdisciplinary Biomedical Sciences PhD Program
2001-2003	Member	Interdisciplinary Biomedical Sciences PhD Program Recruiting Committee
2003-2004	Member	Department of Human Genetics Faculty Search Committee

2008-2009	Member	Department of Human Genetics Faculty Search Committee
2004-2011	Director of Graduate Studies	Department of Human Genetics PhD, MS, and MPH programs
2010-2011	Curriculum Committee	Department of Human Genetics PhD program
2008-2010	Vice Chair	Department of Human Genetics

University of Pittsburgh Department of Biostatistics

2007	Member	Department of Biostatistics Strategic Planning Committee
2005-2010	Member	Department of Biostatistics PhD Qualifying Exam Committee

University of Pittsburgh School of Public Health

2001	Member	Graduate School of Public Health Academic Integrity Hearing Board
2001	Member	Ad-hoc advisory committee on Graduate School of Public Health CV format
2003	Member	Graduate School of Public Health Retreat Planning Committee
1998-2004	Member	Graduate School of Public Health Planning and Budget Committee
2005	Judge	Dean's Day student research competition
2004-2006	Member	Graduate School of Public Health Accreditation Planning Committee
1998-2009	Chair	Graduate School of Public Health Admissions and Student Performance Committee
2000-2009	Member Chair 2008-9	Graduate School of Public Health Educational Policies and Curriculum Committee
2008-2009	Chair	Graduate School of Public Health Academic Integrity Hearing Board
2016	Member	Search committee for Center for Public Health Practice Director

University of Pittsburgh

2005, 2011	Internal Grant Reviewer	WPIC grant applications.
2007-2008	Chair	University Council on Graduate Studies Graduate Procedures Subcommittee
2008 -2010	Internal Grant Reviewer	CTSI
2007-2010	Member	Internal Advisory Committee for the University Genomics and Proteomics Core Laboratories
2008-2012	Member	Internal Advisory Committee for the Cancer Epidemiology T32 Training Program
2012	Member	Scientific Misconduct Review Committee (ad hoc)
2005-2008, 2010-2018	Member	University Council on Graduate Studies
2012-	Internal Grant Reviewer	CTSI
2011-2014	Member	ICRE KL2 program Multidisciplinary Advisory Committee
2020	Member	Provost's Data Science Task Force
2020	Member	UCGS Policy Committee
2020	Member	Plan for Pitt Goal 6 Committee
2020	Member	Research Restart Logistics Subcommittee

2020	Co-chair	Reimagining Pitt Education Graduate Studies and Research Subcommittee
2020-2022	Member	University reaccreditation steering committee

Editorial boards

2002-2005	American Journal of Human Genetics
2006-2010	Biometrics

Study sections and steering committees – regular panel memberships

2006-2009	NIH Biostatistical Methods and Study Design Study Section
2010-2014	NIH CIDR Access Committee
2021-	NIH INCLUDE Project Data Coordinating Committee

Study sections and other review panels – ad hoc service

1999	NIH Genome Study Section
1999	NIH program project review, site visitor
2000	NIH Genome Study Section
2001	NIH resource grant review, site visitor
2002	Wellcome Trust
2002	NIH Genome Study Section
2003	NIH Mammalian Genetics Study Section
2004	NIH Genomics, Computational Biology and Technology Study Section
2005	NIH special review panel for NHLBI program project
2006	NIH panel for RFA on design and analysis of genetic assoc. studies
2006	NIH special review panel for conference grants
2006	NIH special review panel for NHLBI genome-wide association RFA
2006	NIH special review panel for K22 award
2006	NIH special review panel for PROGENI program
2007	CIDR access committee
2008	CIDR access committee
2008	NIH special review panel for NIMH RFA
2009	NIH special review panel for epigenomics RFA
2009	NIH challenge grant review panel
2009	CIDR access committee
2010	NIH challenge grant review panel
2011	NIH special review panel for epigenomics RFA I
2011	NIH special review panel for epigenomics RFA I
2011	NIH special review panel for epigenomics RFA
2012	Special reviewer for Wellcome Trust, UK
2012	Special reviewer for Hong Kong Research Grants Council
2012	NIH special review panel for DR5 initiative
2013	Review panel member for the German Helmholtz Association research program on “Genes and Environment in Common Diseases”
2014	NIH special review panel for U01 on bioinformatic tools and databases for the “druggable genome”
2014	NIH special review panel for U01 on the “genetic architecture of severe mental disorders”
2014	NIMH Board of Scientific Counselors ad hoc reviewer
2014	CIDR Access Committee special review panel
2015	NIH special review panel for U01 on the “genetic architecture of severe mental disorders” (second round)
2015	NIH special review panel for eMERGE 3 proposals

2015	Wellcome Trust
2015	NIH special review panel for U01 on Alzheimer's sequencing
2016	NIH Genetics of Health and Disease study section
2017	NIH special emphasis panel – Development of the Gabriella Miller Kids First Pediatric Data Resource Center
2017	NIDCR special emphasis panel
2018	NIH Transformative Research Award initiative review panel
2018	NIDCR special emphasis panel
2018	NIH Skeletal Biology Structure and Regeneration study section
2019	NIH International and Cooperative Projects study section
2019	NIH special emphasis panel for Down syndrome
2020	NIH special emphasis panel for INCLUDE proposals
2020	NIH special emphasis panel for Mendelian genomics
2021	NIH special emphasis panel for INCLUDE proposals

Service to professional organizations

1999	Invited session organizer	ENAR
1999	Student paper competition judge	ENAR
2001, 2008	Session Chair	ENAR
2002	Session organizer	JSM
2007	Committee Member	Gertrude Cox Scholarship Committee (awards annual scholarship on behalf of the Committee on Women in Statistics and the Caucus of Women in Statistics)
2008	President	ASA Pittsburgh Chapter
2005-2011	Member	American Statistical Association Committee on Women in Statistics
2015-2016	Co-Chair	ASPPH committee on revised CEPH academic degree criteria
2015-2017	Co-Chair	ASPPH academic affairs section

Other professional service

2009-2010	Chair	Analysis subcommittee of the NIH GENEVA consortium steering committee
2011-2013	Member	Social and Scientific Systems annual statistical symposium organizing committee
2013-	Member	External Advisory Board, Center of Excellence in Minority Health and Health Disparities, Jackson State University College of Public Service
2015	Member	CEPH site visitor for school of public health accreditation at SUNY Downstate
2015	Member	Advisory committee to the University of Wisconsin medical school on personalized medicine initiative
2016	Member	CEPH site visitor for school of public health accreditation at the University of Nebraska
2016	Member	Mock site visit for CEPH accreditation of Arnold School of Public Health
2017	Member	External review committee for school of public health at the University of Kentucky
2017	Member	CEPH site visitor for school of public health accreditation at the University of North Carolina
2018	Member	CEPH site visitor for school of public health accreditation at the University of Nevada Las Vegas

2020	Member	CEPH site visitor for school of public health accreditation at the University of Louisville
2021	Member	CEPH site visitor for school of public health accreditation at the University of Florida
2021	Member	External review committee for epidemiology and human genetics graduate programs, University of Maryland
2022	Member	CEPH site visitor for school of public health accreditation at the University of Massachusetts Amherst

Community service and K-12 presentations

1995	Consulted with the New Jersey Public Defender's office on forensic DNA evidence in a death penalty appeal	
2005-2008	Pittsburgh Regional Science & Engineering Fair judge	
2006-2010	Coached robotics teams for Falk School, Pittsburgh	
2013	Falk School, Pittsburgh (Genetics, Race, and Ancestry)	
2017	Winchester Thurston School, Pittsburgh (Big Data)	
2005-2021	Gave annual talk to Indiana Area High School AP statistics class (various topics)	

Consultantships

1998	Consulted for Glaxo on methods for gene mapping in small isolated populations	
2019	Provided expert advice in genetic software licensing litigation	
2022	Provided expert advice in genetic software litigation	