

# Eleanor Feingold

## Curriculum Vitae

University of Pittsburgh  
Graduate School of Public Health  
Office of the Dean

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2019

## Research Areas

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

## Education

BS 1985 **Massachusetts Institute of Technology** Cambridge, Massachusetts Interdisciplinary major, with concentrations in mathematics, public policy, and writing.

PhD 1993 **Stanford University** Palo Alto, California Degree in statistics, with emphasis in probability and stochastic processes.  
Dissertation title: "Modeling a New Genetic Mapping Method." Advisor: Dr. David Siegmund.

## Appointments

1997 - present **University of Pittsburgh**, Pittsburgh, Pennsylvania  
Graduate School of Public Health  
2018-present Interim Chair, Department of Human Genetics  
2015-present Executive Associate Dean  
2010-2017 Associate Dean for Education  
2010-present Professor of Human Genetics  
2003-2010 Associate Professor of Human Genetics  
1997-2003 Assistant Professor of Human Genetics  
Secondary appts. in Biostatistics and in Clinical and Translational Science

1993 - 1997 **Emory University**, Atlanta, Georgia  
Assistant Professor of Biostatistics, Rollins School of Public Health. Faculty member in the Program in Population Biology, Ecology, and Evolution.

1985 - 1988  
(full time)  
1988 - 1990  
(part time)

**Pacific Gas & Electric Company**, San Francisco, California  
Member of an internal consulting group. Provided expertise in applied math, operations research, and statistics.

## Administrative Positions and Responsibilities

### **Interim Chair, Department of Human Genetics, Graduate School of Public Health (2018-present)**

#### **Executive Associate Dean, Graduate School of Public Health (2015-present)**

##### Central responsibilities

- Chief operating officer of the school - collaborate with the dean on all aspects of internal and external operations.
- Plan and lead all strategic planning, assessment, and accreditation activities.
- Collaborate with the Associate Dean for Finance and Administration on financial planning and budgeting (annual budget \$23M hard money, \$55M grants) and on all administrative organization issues.
- Oversee space allocation, construction, and research infrastructure.
- Directly supervise technology services (IT) and external affairs (strategic communications, alumni, development) staff.
- Coordinate efforts of other associate deans in areas of research, faculty affairs, education, student affairs, finance and administration, public health practice, and diversity.

#### **Associate Dean for Education, Graduate School of Public Health (2010-2017)**

##### Central responsibilities

- Administered all educational programs (approximately 650 students in 32 graduate degree and certificate programs and 170 faculty).
- Provided both vision and administrative leadership for new directions in educational programming.
- 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.

#### **Vice-Chair, Department of Human Genetics (2008-2010)**

- Provided assistance to the chair on all aspects of departmental management.
- Led space allocation and planning efforts, event planning, and faculty searches.

#### **Director of Graduate Studies, Department of Human Genetics (2004-2010)**

- Oversaw all aspects of MS, PhD, and MPH programs (approximately 70 students total).
- Co-developed Public Health Genetics MPH degree and Public Health Genetics certificate.

# Professional Society Memberships

American Public Health Association  
Caucus for Women in Statistics  
American Statistical Association  
American Society for Human Genetics  
International Biometric Society (ENAR)  
International Genetic Epidemiology Society

## 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 Elected to the Delta Omega Public Health Honor Society.
- 2010 Fellow of the American Statistical Association.

## Honors (trainees)

- 1996 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."
- 2005 American Statistical Association Pittsburgh chapter "Student of the Year" award given to Jin Szatkiewicz.
- 2007 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."
- 2010 American Statistical Association Pittsburgh chapter "Student of the Year" award given to Chia-Ling Kuo.
- 2013 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. 2012.
- 2014 American Statistical Association Pittsburgh chapter best poster award given to Zhen Zeng.
- 2016 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.

# Regular University Course Teaching

## Emory University

Years Taught	Course Title and Number	Role in Course	Enrollment
Spring 1994	<b>Introduction to Biostatistics</b> Biostatistics 503	Sole instructor for 2 hours of lecture per week.	25
Fall 1994	<b>Probability Theory I</b> Biostatistics 510	Sole instructor for 4 hours of lecture per week.	15
Spring 1995	<b>Statistical Inference I</b> Biostatistics 511	Sole instructor for 4 hours of lecture per week.	15
Spring 1996 Spring 1997	<b>Survey of Applied Statistics for the Health Sciences</b> Biostatistics 504	Sole instructor for 4 hours of lecture per week.	20
Spring 1996 Spring 1997	<b>Design and Analysis for the Biological Sciences</b> Biostatistics 505	Developed course. Sole instructor for 4 hours of lecture per week.	10

## University of Pittsburgh

Years Taught	Course Title and Number	Role in Course	Enrollment
Fall 1998	<b>Quantitative Genetics</b> Human Genetics 203	Gave approximately 30% of lectures in 3-hour-per-week course	10
Spring 2003 Spring 2004	<b>Statistical Methods in Bioinformatics</b> Human Genetics 2024	Gave approximately 35% of lectures in 2-hour course.	15
Fall 1997 Fall 2005	<b>Linkage Analysis in Human Genetics</b> Human Genetics 2048	Gave approximately 30% of lectures in 3-hour-per-week course.	10
Spring 2006	<b>Bioinformatics of Gene Regulation</b> Computational Biology 2020	Gave approximately 15% of lectures in 2-hour course.	15
Fall 1998, Fall 1999, Fall 2000, Fall 2001, Fall 2002, Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007	<b>Molecular and Human Genetics</b> , 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	<b>Introduction to Gene Mapping</b> Human Genetics 2029	Taught approximately half of this 2-hour course.	12

Spring 2008, Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2019	<b>Risk Analysis in Genetic Counseling</b> Human Genetics 2039	Sole instructor for 1-credit course.	15
Summer 2006 Summer 2007 Summer 2008 Summer 2009	<b>Scientific Ethics</b> School of Medicine	Taught 3 – 10 hours of discussion sessions.	10
Spring 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010	<b>Essentials of Public Health</b> PUBLHT 2011	Supervised work of Human Genetics students on projects for this course.	2 - 6
Summer 2013	<b>Summer Edge in Public Health and Global Health</b>	Developed summer undergraduate program in public health and co-taught internship course as part of the program	8
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	<b>Human Population Genetics</b> 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
1997- 2014	<b>Human Genetics Journal Club</b>	Organizer one semester per year in most years.	15 - 30
Summer 2010, Summer 2011, Summer 2012, Summer 2013, Summer 2014, Summer 2015	<b>SIBS</b> Department of Biostatistics	Gave 4-8 lectures and supervised student research projects in undergraduate summer program.	20
Fall 2018, Spring 2019	<b>Public Health Communication</b> 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

## Non-Credit University Teaching

Summer 1998	<b>Statistical Genetics Reading Group</b> Organized and ran a weekly discussion group on linkage analysis literature.
Summer 1999	<b>Statistical Genetics Reading Group</b> Organized and gave a series of weekly lectures on allele-sharing literature.
Summer 2001	<b>Statistical Genetics Reading Group</b> Organized reading group on statistical methods for microarray data analysis.
Fall 2003	<b>Statistical Genetics Reading Group</b> Organized and ran a weekly discussion group on proteomics.
2000-2010	<b>University of Pittsburgh Statistical Genetics Reading Group</b> Organizer during several semesters over the years.
2005-2009	<b>University of Pittsburgh Survival Skills and Ethics Series</b> Leader of “Ethics Over Lunch” discussions for graduate students and postdocs

	(approximately once per year).
1998- 2014, 2018	<b>University of Pittsburgh Statistical Genetics Journal Club</b> Organizer during several semesters over the years.
2011-2013	<b>Plunge Into Public Health</b> Ran scientific ethics workshops at new student orientation.
2011-2015	<b>Scientific Poster Workshop</b> Gave two workshops per year on scientific communication for public health students.
2012-2016	<b>University of Pittsburgh Summer Health Scholars Program</b> Gave one lecture each summer to high school program.
2016-2018	<b>University of Pittsburgh Summer Edge Program</b> Gave one lecture each summer to undergraduate program.
2016-	<b>Plunge Into Public Health</b> Ran diversity and inclusion workshops at new student orientation.

## Extra-University Short Course Teaching

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

## Major Advisor for Graduate Student Essays, Theses and Dissertations

1997	<b>Laura Gordon</b>		M.S. Biostatistics Emory	Statistical Methods for Genetic Mapping with Phase-Unknown Data
1997	<b>Chandra Owens</b>		M.S. Biostatistics Emory	Familial Effects on Genetic Recombination

1998	<b>Belinda San Juan</b>		M.P.H. Biostatistics Emory	Investigating the Paternal Age Effect on Human Sperm Disomy in Chromosomes 1, 8, and the Sex Chromosomes
1998-2000	<b>Kai Yu</b>	National Cancer Institute	Ph.D. Biostatistics Pittsburgh	Statistical Methods for Analyzing Tetrad Crossover Probabilities
2000-2002	<b>Zhiying Xu</b>		M.S. Biostatistics Pittsburgh	Statistical Methods for Testing Genotype-Phenotype Association in Trisomic Data
2001-2003	<b>Yan Lin</b>	Research Associate Professor, University of Pittsburgh	M.S. Biostatistics Pittsburgh	Bayesian Analysis of Microarray Data
2000-2004	<b>Jin Szatkiewicz</b>	Associate Professor, University of North Carolina	Ph.D. Biostatistics Pittsburgh	Statistical Methods for Quantitative Trait Mapping with Selected Samples
2003-2007	<b>Yan Lin</b>	Research Associate Professor, University of Pittsburgh	Ph.D. Biostatistics Pittsburgh	Statistical Issues in Family-Based Genetic Association Studies with Application to Congenital Heart Defects in Down Syndrome
2004-2007	<b>Xiaojing Wang</b>	Biostatistician, ConvaTec	M.S. Biostatistics Pittsburgh	A Comparison of Principle Component Analysis and Factor Analysis for Quantitative Phenotypes on Family Data
2005-2008	<b>Samsiddhi Bhattacharjee</b>	Assistant Professor, National Institute of Biomedical Genomics, Kolkata India	Ph.D. Human Genetics Pittsburgh	Variance Component Score Statistics for QTL Mapping
2005-2010	<b>Chia-Ling Kuo</b>	Assistant Professor, University of Connecticut	Ph.D. Biostatistics Pittsburgh	Topics in Statistical Methods for Human Gene Mapping
2005-2010	<b>Soo Yeon Cheong</b>		Ph.D. Biostatistics Pittsburgh	Statistical Methods and Designs for Raw Genotype Data
2008-2010	<b>Stacy Lloyd</b>	Research Scientist, Baylor College of Medicine	Ph.D. Human Genetics Pittsburgh	An Analysis of Estrogen Metabolism and Breast Cancer Risk
2010	<b>Tara Capece</b>		M.P.H. Human Genetics Pittsburgh	Purification and Immunological Characterization of Receptor-Associated Protein (RAP)
2010	<b>Lauren Hudak</b>		M.P.H. Human	The Importance of Research and Advocacy for Mitochondrial Diseases

			Genetics Pittsburgh	
2010-2011	<b>Chang-Sook Hong</b>	Research Assistant Professor, University of Pittsburgh	M.S. Biostatistics Pittsburgh	Studies of Association of Environmental Risk Factors in Down Syndrome
2009-2012	<b>Xiaojing Zheng</b>	Associate Professor, University of North Carolina	Ph.D. Biostatistics Pittsburgh	Copy Number Variants in Genetic Association Studies
2012	<b>Praewpannarai Buddadhumaruk</b>	Biostatistician, University of Pittsburgh	M.S. Biostatistics Pittsburgh	A Case-Case Genome-Wide Association Study of Trisomy 21
2009-2013	<b>Ferdouse Begum</b>	Biostatistician, Food and Drug Administration	Ph.D. Biostatistics Pittsburgh	Genetics of Meiotic Recombination: Methods and Applications
2009-2013	<b>Umut Ozbek</b> (co-advisor)	Assistant Professor, Mount Sinai School of Medicine	Ph.D. Biostatistics Pittsburgh	Statistical Methods for Recovering GWAS Data
2011-2013	<b>Harrison Brand</b> (co-advisor)	Assistant Professor, Harvard University	Ph.D. Human Genetics, Pittsburgh	A Haplotype-Based Permutation Approach in Gene-Based Testing
2011-2015	<b>Zhen Zeng</b>	Biostatistician, Merck	Ph.D. Biostatistics, M.S. Human Genetics, Pittsburgh	A Pipeline for Classifying Close Family Relationships with Dense SNP Data and Putative Pedigree Information
2012-2015	<b>Hui-Min Lin</b>	Biostatistician, Takeda Pharmaceuticals	Ph.D. Biostatistics Pittsburgh	Behavior of Statistics for Genetic Association in a Genome-Wide Scan Context
2011-2015	<b>Deyana Lewis</b>	Postdoctoral Fellow, NIH	Ph.D. Human Genetics Pittsburgh	Candidate Genes and Replication Studies of Dental Caries
2010-2016	<b>Nandita Mukhopadhyay</b>	Staff Scientist, University of Pittsburgh School of Dental Medicine	Ph.D. Human Genetics Pittsburgh	Computational Methods for Calculating Meiotic Recombination from Nuclear Pedigrees
2015-2016	<b>Chris Freyder</b>	Actuary, Highmark	M.S. Biostatistics, Pittsburgh	Using Linear Regression and Mixed Models to Predict Health Care Costs after an Inpatient Event
2013-2017	<b>Jenna Colavincenzo</b>	Assistant Professor, University of Pittsburgh	Ph.D. Biostatistics Pittsburgh	Methods for Family-Based Designs in Genetic Epidemiology Studies
2014-	<b>Jon Chernus</b>		Ph.D. Human	



			Genetics Pittsburgh	
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## Other Graduate Student Papers Supervised

Complete citations for the papers below appear in the "Refereed Articles" section.

<b>Neil Lamb</b>	Director of Education and Outreach for the Hudson-Alpha Institute for Biotechnology	Ph.D.	Genetics	Emory
	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).			
<b>L. Kathryn Durham</b>	Statistician, Pfizer Pharmaceuticals	Ph.D.	Biostatistics	Emory
	1. "Genome Screening for Segments Shared Identical by Descent Among Distant Relatives in Isolated Populations" (1997).			
<b>Amanda Savage Brown</b>	Centers for Disease Control	Ph.D.	Genetics	Emory
	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	<b>Neil Lamb</b>	Ph.D.	Genetics	Emory
1994-1997	<b>Allison Ashley-Koch</b>	Ph.D.	Genetics	Emory
1996-1997	<b>L. Kathryn Durham</b>	Ph.D.	Biostatistics	Emory
1996-1997	<b>Maya Sternberg</b>	Ph.D.	Biostatistics	Emory
1996-1997	<b>David Dunson</b>	Ph.D.	Biostatistics	Emory
1998	<b>Suzanne O'Neill</b>	M.S.	Human Genetics	Pittsburgh
1999	<b>Heather Shappell</b>	M.S.	Genetic Counseling	Pittsburgh
1999	<b>Claire Noll</b>	M.S.	Genetic Counseling	Pittsburgh
1995-1999	<b>Amanda Savage Brown</b>	Ph.D.	Genetics	Emory
1997-1999	<b>Michael Barmada</b>	Ph.D.	Human Genetics	Pittsburgh
2000	<b>Paulien Van Galen</b>	M.S.	Genetic Counseling	Pittsburgh
1998-2000	<b>Brion Maher</b>	Ph.D.	Human Genetics	Pittsburgh
2001	<b>Julie Lindner</b>	M.S.	Genetic Counseling	Pittsburgh
1998-2001	<b>Suzanne O'Neill</b>	Ph.D.	Human Genetics	Pittsburgh
2000-2002	<b>Coleen Dancott</b>	Ph.D.	Human Genetics	Pittsburgh
2000-2002	<b>Susan Moffett</b>	Ph.D.	Human Genetics	Pittsburgh
2001-2002	<b>Jean Dunlap</b>	M.S.	Genetic Counseling	Pittsburgh
2000-2003	<b>Kim Fowler Kerstann</b>	Ph.D.	Human Genetics	Emory
2003	<b>Suhagi Jasani</b>	M.S.	Pathology	Pittsburgh
2003	<b>Roxanne Miller</b>	M.S.	Genetic Counseling	Pittsburgh

2003	<b>Celeste Barkley</b>	M.P.H.		Pittsburgh
2003	<b>Andy Katsiaras</b>	M.P.H.	Epidemiology	Pittsburgh
2003-2004	<b>David Corcoran</b>	M.S.	Biostatistics	Pittsburgh
2004	<b>Feng Dai</b>	M.S.	Biostatistics	Pittsburgh
2004	<b>Hui-Ju Tsai</b>	Ph.D.	Human Genetics	Pittsburgh
2004	<b>Lisa Alexander</b>	M.P.H.		Pittsburgh
2004	<b>Nikki Hudak-Fink</b>	M.P.H.	Epidemiology	Pittsburgh
2004	<b>Sameer Kokan</b>	M.H.A.		Pittsburgh
2004	<b>Connie Rogers</b>	M.P.H.	Epidemiology	Pittsburgh
2004	<b>Ashley Smith</b>	M.P.H.	Epidemiology	Pittsburgh
2004	<b>Sandi Elnicki</b>	Ph.D.	Human Genetics	Pittsburgh
2005	<b>Arvind Desari</b>	M.S.	Human Genetics	Pittsburgh
2005	<b>Ying Jiang</b>	M.S.	Human Genetics	Pittsburgh
2005-2006	<b>Ina Allicott</b>	M.P.H.	BCHS	Pittsburgh
2005-2006	<b>Stephanie Newton</b>	M.S.	Genetic Counseling	Pittsburgh
2006	<b>Sarisha Rao</b>	M.P.H.	BCHS	Pittsburgh
2005-2007	<b>Michael Michalec</b>	M.S.	Human Genetics	Pittsburgh
2006-2007	<b>Brian Shirts</b>	Ph.D.	Human Genetics	Pittsburgh
2006-2007	<b>Xiaojing Zheng</b>	Ph.D.	Human Genetics	Pittsburgh
2004-2007	<b>Feng Dai</b>	Ph.D.	Biostatistics	Pittsburgh
2005-2007	<b>Xiaojing Wang</b>	Ph.D.	Human Genetics	Pittsburgh
2005-2007	<b>Sriram Balu</b>	M.S.	Human Genetics	Pittsburgh
2005-2007	<b>Amrita Ray</b>	Ph.D.	Human Genetics	Pittsburgh
2007	<b>Sarah Grams</b>	M.S.	Genetic Counseling	Pittsburgh
2007	<b>Megahn Beck</b>	M.S.	Genetic Counseling	Pittsburgh
2007	<b>Rebecca Altman</b>	M.P.H.	BCHS	Pittsburgh
2004-2007	<b>Michael Ewing</b>	M.S.	Human Genetics	Pittsburgh
2005-2008	<b>Dan Handley</b>	Ph.D.	Human Genetics	Pittsburgh
2005-2008	<b>Tiffany Oliver</b>	Ph.D.	Human Genetics	Emory
2005-2008	<b>David Corcoran</b>	Ph.D.	Human Genetics	Pittsburgh
2006-2008	<b>Danielle Iuliano</b>	Ph.D.	Epidemiology	Pittsburgh
2006-2008	<b>Michael Talkowski</b>	Ph.D.	Human Genetics	Pittsburgh
2006-2008	<b>John Shaffer</b>	Ph.D.	Human Genetics	Pittsburgh
2006-2008	<b>Sangita Suresh</b>	Ph.D.	Human Genetics	Pittsburgh
2008	<b>Chunrong Cheng</b>	Ph.D.	Biostatistics	Pittsburgh
2008	<b>Zhibao Mi</b>	Ph.D.	Biostatistics	Pittsburgh
2008	<b>Rick Blakesley</b>	Ph.D.	Biostatistics	Pittsburgh
2006-2009	<b>Pattarana Sae-Chew</b>	Ph.D.	Human Genetics	Pittsburgh
2008-2009	<b>Lindsay Walker</b>	M.P.H.	BCHS	Pittsburgh
2008-2009	<b>Lauren Hache</b>	M.S.	Genetic Counseling	Pittsburgh
2008-2009	<b>Jennifer Moeller</b>	M.S.	Genetic Counseling	Pittsburgh
2008-2009	<b>Jason Carson</b>	M.S.	Human Genetics	Pittsburgh
2009	<b>Jill Currey</b>	M.P.H.	BCHS	Pittsburgh
2009	<b>LaToya Strong</b>	M.S.	IDM	Pittsburgh
2005-2010	<b>Munil Koppanati</b>	Ph.D.	Human Genetics	Pittsburgh
2005-2010	<b>Maliha Zahid</b>	Ph.D.	Human Genetics	Pittsburgh
2009-2010	<b>Kui Shen</b>	Ph.D.	Computational Biology	Pittsburgh
2008-2010	<b>Yan Du</b>	M.S.	Human Genetics	Pittsburgh
2007-2010	<b>Khaleelah Glover</b>	M.S.	Biostatistics	Pittsburgh
2009-2010	<b>Harrison Brand</b>	M.P.H.	Epidemiology	Pittsburgh
2009-2010	<b>Pei-Chen Tsai</b>	M.S.	Biostatistics	Pittsburgh

2009-2010	<b>You Li</b>	Ph.D.	Human Genetics	Pittsburgh
2010	<b>Kathryn Murphy</b>	M.P.H.	BCHS	Pittsburgh
2010	<b>Sarah Nielsen</b>	M.S.	Genetic Counseling	Pittsburgh
2010	<b>Rebecca Frye</b>	M.P.H.	BCHS	Pittsburgh
2009-2011	<b>The Minh Luong</b>	Ph.D.	Biostatistics	Pittsburgh
2010-2011	<b>Brian Nolen</b>	Ph.D.	Human Genetics	Pittsburgh
2006-2012	<b>Wan Zhu</b>	Ph.D.	Human Genetics	Pittsburgh
2008-2011	<b>Matt Nicholoau</b>	Ph.D.	IDM	Pittsburgh
2011-2012	<b>Chi Song</b>	Ph.D.	Biostatistics	Pittsburgh
2009-2013	<b>Elizabeth Hight</b>	M.S.	Genetic Counseling	Pittsburgh
2010-2013	<b>Ming-Chi Tsai</b>	Ph.D.	Computational Biology	CMU
2012-2013	<b>Kristen Qutub</b>	M.S.	Genetic Counseling	Pittsburgh
2012-2014	<b>Teresa Ruegg</b>	M.S.	Genetic Counseling	Pittsburgh
2013-2014	<b>Shaowu Tang</b>	Ph.D.	Biostatistics	Pittsburgh
2014	<b>Chijioke Eseonu</b>	M.P.H.	Multidisciplinary	Pittsburgh
2014	<b>Martin Smallidge</b>	M.P.H.	Multidisciplinary	Pittsburgh
2014	<b>Christian Knutsen</b>	M.P.H.	Multidisciplinary	Pittsburgh
2014	<b>Rima El Hajje</b>	M.P.H.	Multidisciplinary	Pittsburgh
2014	<b>Michael Hilton</b>	M.P.H.	Multidisciplinary	Pittsburgh
2014	<b>Joshua Blatter</b>	M.P.H.	Multidisciplinary	Pittsburgh
2014	<b>Serena Liao</b>	Ph.D.	Biostatistics	Pittsburgh
2013-2015	<b>Yerkebulan Talzhanov</b>	Ph.D.	Human Genetics	Pittsburgh
2014-2015	<b>Jia Jia</b>	Ph.D.	Biostatistics	Pittsburgh
2014-2015	<b>Beth Zamboni</b>	PhD.	Biostatistics	Pittsburgh
2010-2015	<b>Dafna Benadof</b>	Ph.D.	BCHS	Pittsburgh
2014-2015	<b>Enrique Velazquez</b>	Ph.D.	Human Genetics	Pittsburgh
2015-2016	<b>Laura Cross</b>	M.S.	Genetic Counseling	Pittsburgh
2016	<b>Catherine Mehta</b>	M.P.H.	Health Policy and Management	Pittsburgh
2014- 2016	<b>Samantha Rosenthal</b>	Ph.D.	Human Genetics	Pittsburgh
2015- 2016	<b>Ying Shan</b>	Ph.D.	Biostatistics	Pittsburgh
2018-	<b>Kylia Williams</b>	Ph.D.	Integrative Systems Biology	Pittsburgh

## Supervision of Post-Doctoral Trainees

Complete citations for the papers below appear in the "Refereed Articles" section.

1998-2000	<b>Bill Forrest</b>	Biotatistician, Genentech
1999-2003	<b>Kyunghee Song</b>	Statistician, Food and Drug Administration
2000-2003	<b>Karen T.Cuenco</b>	Gates Foundation
1999-2004	<b>Haydar Sengul</b>	
2003-2005	<b>Brian Reck</b>	
2003-	<b>Guy Brock</b>	Associate Professor, Ohio State University

2005		
2004-2005	<b>Jin Szatkiewicz</b>	Research Assistant Professor, University of North Carolina
2004-2006	<b>Jeesun Jung</b>	Staff Scientist, NIAAA
2004-2006	<b>Indranil Mukhopadhyay</b>	Associate Professor, Indian Statistical Institute
2004-2006	<b>Anbupalam Thalamuthu</b>	Adjunct Senior Research Scientist, Genome Institute of Singapore
2005-2006	<b>Abigail Matthews</b>	Biostatistician, Emmes Corporation
2004-2007	<b>Gina D'Angelo</b>	Biostatistician, MedImmune
2007-2011	<b>John Shaffer</b>	Assistant Professor, University of Pittsburgh

## Other Mentoring

2000	<b>Stephanie Goode</b>	Rotation student, Interdisciplinary Biomedical Sciences Ph.D. program
2003	<b>Xiaojing Wang</b>	Rotation student, Interdisciplinary Biomedical Sciences Ph.D. program
2003	<b>John Shaffer</b>	Rotation student, Department of Human Genetics
2004	<b>Samsiddhi Bhattacharjee</b>	Rotation student, Department of Human Genetics
2005	<b>Jiangbo Tang</b>	Rotation student, Department of Human Genetics
2005	<b>Michael Ferenczy</b>	Rotation student, Interdisciplinary Biomedical Sciences Ph.D. program.
2013	<b>Brooklyn Stanley</b>	Summer student in TECBio REU program (co-mentor)

## Grants and Contracts (Current)

My role	Years	Title	Agency and number	PI
Co-investigator	2014-2020	<b>Extending the Phenotype of Nonsyndromic Orofacial Clefts</b>	NIH R01 DE016148	Marazita
Biostatistician	2019-2022	<b>Epidemiology of Glycemic Exposure and Complication Development in Type 1 Diabetes</b>	American Diabetes Association	Miller
Biostatistician	2016-2020	<b>Re-Evaluating the Role of HDL in Coronary Artery Disease</b>	NIH R01 HL130153	Costacou
Co-investigator	2016-2020	<b>Neurodegeneration in Aging Down Syndrome</b>	NIH U01 AG051406	Handen
Co-investigator	2016-2020	<b>Search for the Alzheimers Genes</b>	NIH AG030653	Kamboh
Co-investigator	2017-2022	<b>The genetic architecture of human facial morphology</b>	NIH R01 DE027023	Weinberg and Shaffer

## Grants and Contracts (Past)

My role	Years	Title	Agency and number	PI
PI	1996	<b>Emory University Teaching Fund Award</b>	internal university award	Eleanor Feingold
Subcontract PI	1994-2000	<b>Statistical Methods for Identity-by-Descent Maps</b>	NIH R01 HG 00848	David Siegmund (Stanford)
Subcontract PI	2000-2005	<b>A Program of Research in Population Cytogenetics</b>	NIH R01 HD 21341	Terry Hassold (Case Western)
Biostatistician	2003-2007	<b>Neocortical Transcriptome Changes in Schizophrenia</b>	NIH	Karoly Mirnics
Co-investigator	1995-2000	<b>Mechanisms of Human Chromosome Abnormality</b>	NIH	Stephanie Sherman (Emory)
Biostatistician	2001-2002	<b>Cytotoxic Lymphocytes and HSV – Corneal Lesions</b>	NIH	Robert Hendricks
Biostatistician	2001-2004	<b>Genetic and Inflammatory Markers of Sepsis</b>	NIH	Derek Angus
Biostatistician	2000-2005	<b>Genetic Studies of Lymphedema</b>	NIH	David Finegold
Co-PI	1998-2006	<b>A Robust Integrated System for Mapping Complex Diseases</b>	NIH R01 MH 64205	Daniel Weeks
PI	2001-2009	<b>Human QTL Mapping with Selected Samples</b>	NIH R01 HG02374	Eleanor Feingold
Subcontract PI	2000-2010	<b>Trisomy 21: Risk Factors for Chromosome Nondisjunction</b>	NIH R01 HD38979	Stephanie Sherman (Emory University)
Biostatistician	2007-2010	<b>Modeling in vivo Protein DNA Interactions from High Throughput Data MPI/I</b>	NIH R01 LM009657	Takis Benos
Faculty member	2002-2009	<b>India-US Research Training Program in Genetics</b>	NIH (Fogarty) D43 TW06180	Daniel Weeks
Biostatistician	2003-2010	<b>Inflammation and Ovarian Cancer</b>	NIH R01 CA095023	Roberta Ness
Biostatistician	2006-2009	<b>Familial Susceptibility for Lymphedema Secondary to Breast Cancer Therapy</b>	American Cancer Society RSG-06-212-01-LR	David Finegold
Biostatistician	2006-2009	<b>Inflammatory Markers and Breast Cancer Risk</b>	U.S. Army W81XWH-06-1-0533	Brenda Diergaarde
Faculty member	2006-2009	<b>Developing Outreach Materials for AP Students and Their Teachers: Case Studies in</b>	American Statistical Association	Roslyn Stone

		<b>Collaborative Research</b>	Biometrics Section	
Biostatistician	2007-2009	<b>Transcriptome Analysis in Major Depression</b>	NIH R01 MH077159	Etienne Sibille
Biostatistician	2007-2009	<b>Variation in Ara-C Pathway Genes and Treatment Outcomes in AML</b>	NIH R01 CA119142	Rakesh Goyal
Subcontract PI	2007-2010	<b>Genome-wide Association for Premature Birth (GENEVA)</b>	NIH U01 HG004423	Jeff Murray (Iowa)
Biostatistician	2007-2011	<b>Dental Caries: Whole Genome Association and Gene X Environment Interaction (GENEVA)</b>	NIH U01 DE018903	Mary Marazita (Pittsburgh)
Subcontract PI	2007-2012	<b>Genetics of Congenital Heart Defects</b>	NIH R01 HL083300	Roger Reeves (Johns Hopkins)
PI	2011-2012	<b>Psychosis in Alzheimer's Disease: The Role of DNA Copy Number Variation</b>	CAPH	Feingold
Biostatistician	2007-2012	<b>Modeling in vivo Protein DNA Interactions from High Throughput Data MPI/I</b>	NIH R01 LM009657	Benos
Biostatistician	2010-2013	<b>Head and Neck Cancer SPORE</b>	NIH 2P50 CA097190	Grandis
Co-investigator	2011-2013	<b>Understanding Genetic Basis of Dental Caries via Integrative Genomic Approaches</b>	NIH R03DE022093	Zhao (Vanderbilt)
PI	2011-2014	<b>Statistical Modeling and Genetic Epidemiology of Dental Caries in GWAS Analysis</b>	NIH R03 DE021425	Feingold
Joint PI	2103	<b>Trisomy 21: Risk Factors for Chromosome Nondisjunction</b>	CIDR X01 HG007493	Sherman and Feingold
Joint PI	2013	<b>Genetics of Orofacial Clefts and Related Phenotypes</b>	CIDR X01-HG007485	Marazita and Feingold
Joint PI	2014	<b>Genetic Analysis of Quantitative Facial Variation</b>	CIDR X01 HG007821	Marazita, Feingold, Weinberg
Joint PI	2010-2015	<b>Trisomy 21: Risk Factors for Chromosome Nondisjunction</b>	NIH R01 HD38979	Sherman and Feingold
Biostatistician	2010-2014	<b>Gaucher Disease DS3 Validation Study</b>	Genzyme	Weinreb
Instructor	2010-2016	<b>Summer Institute for Training in Biostatistics</b>	NIH IT14HL09777	Stone
Co-investigator	2012-2017	<b>Deep Resequencing of Candidate Regions in Late-onset Alzheimers Diseases</b>	NIH R01 AG041718	Kamboh
Faculty	2015	<b>Preparing Dental Students to Serve in Rural and Underserved</b>	HRSA	Weyant

<b>Areas of Western PA</b>				
Co-investigator	2014-2017	<b>Modeling childhood dental caries patterns for genomic and epigenetic analysis</b>	NIH R03DE024264	Shaffer
Joint PI	2016	<b>Genomic Studies of Orofacial Cleft Birth Defects (Gabriella Miller Kids First Program)</b>	NIH X01 HL132363	Marazita and Feingold
Joint PI	2017	<b>Genomic studies of oral health and disease</b>	NIH X01 HG009878	Shaffer and Feingold
Joint PI	2016-2019	<b>Analysis of whole genome sequence data in orofacial clefts</b>	NIH R03 DE026469	Marazita and Feingold
Joint PI	2017	<b>Genomic Studies of Orofacial Cleft Birth Defects in Latin American Families (Gabriella Miller Kids First Program)</b>	NIH X01 HL136465	Marazita and Feingold
Co-investigator	2014-2019	<b>Facebase Management and Coordination Hub</b>	NIH U01 DE020057	Murray

## 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.

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
- 2016 Indiana Area High School AP statistics class
- 2017 University of Pittsburgh Department of Critical Care Medicine
- 2017 Winchester Thurston School AP statistics class
- 2017 Indiana Area High School AP statistics class
- 2018 Bijoy Krishna Girls' College, Kolkata, India.
- 2018 Indiana Area High School AP statistics class

## Administrative topics

2016 University of Pittsburgh Provost's annual assessment conference

## Refereed Articles

1.	Feingold E. Markov Processes for Modeling and Analyzing a New Genetic Mapping Method. <i>Journal of Applied Probability</i> . 1993; 30:766-779.
2.	Feingold E, Brown PO, Siegmund D. Gaussian models for genetic linkage analysis using complete high-resolution maps of identity by descent. <i>American journal of human genetics</i> . 1993 Jul; 53 (1):234-51. PMID: 1682227. PMID: 8317489.
3.	Feingold E, Lamb NE, Sherman SL. Methods for genetic linkage analysis using trisomies. <i>American journal of human genetics</i> . 1995 Feb; 56 (2):475-83. PMID: 1801125. PMID: 7847384.
4.	Griffin DK, Abruzzo MA, Millie EA, Sheean LA, Feingold E, Sherman SL, Hassold TJ. Non-disjunction in human sperm: evidence for an effect of increasing paternal age. <i>Human molecular genetics</i> . 1995 Dec; 4 (12):2227-32. PMID: 8634691.
5.	Feingold E. The defeat of health care reform: misplaced mistrust in government. <i>American journal of public health</i> . 1995 Dec; 85 (12):1619-22. PMID: 1615748. PMID: 7503334.
6.	Lamb NE, Feingold E, Sherman SL. Statistical models for trisomic phenotypes. <i>American journal of human genetics</i> . 1996 Jan; 58 (1):201-12. PMID: 1914934. PMID: 8554057.
7.	Griffin DK, Abruzzo MA, Millie EA, Feingold E, Hassold TJ. Sex ratio in normal and disomic sperm: evidence that the extra chromosome 21 preferentially segregates with the Y chromosome. <i>American journal of human genetics</i> . 1996 Nov; 59 (5):1108-13. PMID: 1914829. PMID: 8900240.
8.	Nolin SL, Lewis FA 3rd, Ye LL, Houck GE Jr, Glicksman AE, Limprasert P, Li SY, Zhong N, Ashley AE, Feingold E, Sherman SL, Brown WT. Familial transmission of the FMR1 CGG repeat. <i>American journal of human genetics</i> . 1996 Dec; 59 (6):1252-61. PMID: 1914886. PMID: 8940270.
9.	Feingold E, Siegmund DO. Strategies for mapping heterogeneous recessive traits by allele-sharing methods. <i>American journal of human genetics</i> . 1997 Apr; 60 (4):965-78. PMID: 1712456. PMID: 9106544.
10.	Lamb NE, Feingold E, Sherman SL. Estimating meiotic exchange patterns from recombination data: an application to humans. <i>Genetics</i> . 1997 Jul; 146 (3):1011-7. PMID: 1208031. PMID: 9215904.
11.	Lamb NE, 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 MB, Hassold T, Sherman SL. Characterization of susceptible chiasma configurations that increase the risk for maternal nondisjunction of chromosome 21. <i>Human molecular genetics</i> . 1997 Sep; 6 (9):1391-9. PMID: 9285774.
12.	Durham LK, Feingold E. Genome scanning for segments shared identical by descent among distant relatives in isolated populations. <i>American journal of human genetics</i> . 1997 Oct; 61 (4):830-42. PMID: 1715979. PMID: 9382093.
13.	Cope TC, Sokoloff AJ, Dacko SM, Huot R, Feingold E. Stability of motor-unit force thresholds in the decerebrate cat. <i>Journal of neurophysiology</i> . 1997 Dec; 78 (6):3077-82. PMID: 9405527.
14.	Estop AM, Cieply KM, Wakim A, Feingold E. Meiotic products of two reciprocal translocations studied by multicolor fluorescence in situ hybridization. <i>Cytogenetics and cell genetics</i> . 1998; 83 (3):193-8. PMID: 10072576.
15.	Sun F, Ashley-Koch AE, Durham LK, Feingold E, Halloran ME, Manatunga AK, Sherman SL. Testing for contributions of mitochondrial DNA mutations to complex diseases. <i>Genetic epidemiology</i> .

	1998; 15 (5):451-69. PMID: 9728889.
16.	Barmada MM, Aston CE, Feingold E. A simple allele sharing statistic for multiple locus systems. <i>Genetic epidemiology</i> . 1999; 17:S497-501. PMID: 10597482.
17.	Estop AM, Cieply KM, Munne S, Feingold E. Multicolor fluorescence in situ hybridization analysis of the spermatozoa of a male heterozygous for a reciprocal translocation t(11;22)(q23;q11). <i>Hum Genet May</i> 1999; 104(5): 412-7.
18.	Feingold E, Song KK, Weeks DE. Comparison of allele-sharing statistics for general pedigrees. <i>Genetic epidemiology</i> . 2000; 19:S92-8. PMID: 11055376.
19.	Feingold E, Brown AS, Sherman SL. Multipoint estimation of genetic maps for human trisomies with one parent or other partial data. <i>American journal of human genetics</i> . 2000 Mar; 66 (3):958-68. PMCID: PMC1288176. PMID: 10712210.
20.	Brown AS, Feingold E, Broman KW, Sherman SL. Genome-wide variation in recombination in female meiosis: a risk factor for non-disjunction of chromosome 21. <i>Human molecular genetics</i> . 2000 Mar 1; 9 (4):515-23. PMID: 10699174.
21.	Estop AM, Cieply K, Munne S, Surti U, Wakim A, Feingold E. Is there an interchromosomal effect in reciprocal translocation carriers? Sperm FISH studies. <i>Human genetics</i> . 2000 May; 106 (5):517-24. PMID: 10914681.
22.	Forrest WF, Feingold E. Composite statistics for QTL mapping with moderately discordant sibling pairs. <i>American journal of human genetics</i> . 2000 May; 66 (5):1642-60. PMCID: PMC1378022. PMID: 10762549.
23.	Kahsar-Miller M, Azziz R, Feingold E, Witchel SF. A variant of the glucocorticoid receptor gene is not associated with adrenal androgen excess in women with polycystic ovary syndrome. <i>Fertility and sterility</i> . 2000 Dec; 74 (6):1237-40. PMID: 11119758.
24.	Peters DG, Kassam AB, Feingold E, Heidrich-O'Hare E, Yonas H, Ferrell RE, Brufsky A. Molecular anatomy of an intracranial aneurysm: coordinated expression of genes involved in wound healing and tissue remodeling. <i>Stroke Apr</i> 2001; 32(4): 1036-42.
25.	Yu K, Feingold E. Estimating the frequency distribution of crossovers during meiosis from recombination data. <i>Biometrics</i> . 2001 Jun; 57 (2):427-34. PMID: 11414566.
26.	Jiang ZL, Reay D, Kreppel F, Gambotto A, Feingold E, Kochanek S, McCarthy SA, Clemens PR. Local high-capacity adenovirus-mediated mCTLA4lg and mCD40lg expression prolongs recombinant gene expression in skeletal muscle. <i>Molecular therapy : the journal of the American Society of Gene Therapy</i> . 2001 Jun; 3 (6):892-900. PMID: 11407903.
27.	Sengul H, Weeks DE, Feingold E. A survey of affected-sibship statistics for nonparametric linkage analysis. <i>American journal of human genetics</i> . 2001 Jul; 69 (1):179-90. PMCID: PMC1226032. PMID: 11404816.
28.	Feingold E. Methods for linkage analysis of quantitative trait loci in humans. <i>Theoretical population biology</i> . 2001 Nov; 60 (3):167-80. PMID: 11855951.
29.	Song KK, Feingold E, Weeks DE. Statistics for nonparametric linkage analysis of X-linked traits in general pedigrees. <i>American journal of human genetics</i> . 2002 Jan; 70 (1):181-91. PMCID: PMC384886. PMID: 11719901.
30.	Yu K, Feingold E. Methods for analyzing the spatial distribution of chiasmata during meiosis based on recombination data. <i>Biometrics</i> . 2002 Jun; 58 (2):369-77. PMID: 12071410.
31.	Feingold E. Regression-based quantitative-trait-locus mapping in the 21st century. <i>Am J Hum Genet Aug</i> 2002; 71(2): 217-22.
32.	Jiang Z, Feingold E, Kochanek S, Clemens PR. Systemic delivery of a high-capacity adenoviral vector expressing mouse CTLA4lg improves skeletal muscle gene therapy. <i>Molecular therapy : the journal of the American Society of Gene Therapy</i> . 2002 Sep; 6 (3):369-76. PMID: 12231173.
33.	Lin Y, Reynolds P, Feingold E. An empirical bayesian method for differential expression studies using one-channel microarray data. <i>Statistical applications in genetics and molecular biology</i> . 2003; 2:Article8. PMID: 16646786.
34.	Zhang Y, Syed R, Uygur C, Pallos D, Gorro MC, Firatli E, Cortelli JR, VanDyke TE, Hart PS, Feingold E, Hart TC. Evaluation of human leukocyte N-formylpeptide receptor (FPR1) SNPs in

	aggressive periodontitis patients. <i>Genes and immunity</i> . 2003 Jan; 4 (1):22-9. PMID: 12595898.
35.	Damcott CM, Feingold E, Moffett SP, Barmada MM, Marshall JA, Hamman RF, Ferrell RE. Variation in the FABP2 promoter alters transcriptional activity and is associated with body composition and plasma lipid levels. <i>Human genetics</i> . 2003 May; 112:610-6. PMID: 12634920.
36.	Levinson KL, Feingold E, Ferrell RE, Glover TW, Traboulsi EI, Finegold DN. Age of onset in hereditary lymphedema. <i>The Journal of pediatrics</i> . 2003 Jun; 142 (6):704-8. PMID: 12838201.
37.	T Cuenco K, Szatkiewicz JP, Feingold E. Recent advances in human quantitative-trait-locus mapping: comparison of methods for selected sibling pairs. <i>American journal of human genetics</i> . 2003 Oct; 73 (4):863-73. PMCID: PMC1180608. PMID: 12970847.
38.	Szatkiewicz JP, T Cuenco K, Feingold E. Recent advances in human quantitative-trait-locus mapping: comparison of methods for discordant sibling pairs. <i>American journal of human genetics</i> . 2003 Oct; 73 (4):874-85. PMCID: PMC1180609. PMID: 12970846.
39.	Xu Z, Kerstann KF, Sherman SL, Chakravarti A, Feingold E. A trisomic transmission disequilibrium test. <i>Genetic epidemiology</i> . 2004 Feb; 26 (2):125-31. PMID: 14748012.
40.	Song KK, Weeks DE, Sobel E, Feingold E. Efficient simulation of P values for linkage analysis. <i>Genetic epidemiology</i> . 2004 Feb; 26 (2):88-96. PMID: 14748008.
41.	Damcott CM, Moffett SP, Feingold E, Barmada MM, Marshall JA, Hamman RF, Ferrell RE. Genetic variation in fatty acid-binding protein-4 and peroxisome proliferator-activated receptor gamma interactively influence insulin sensitivity and body composition in males. <i>Metabolism: clinical and experimental</i> . 2004 Mar; 53 (3):303-9. PMID: 15015141.
42.	Damcott CM, Feingold E, Moffett SP, Barmada MM, Marshall JA, Hamman RF, Ferrell RE. Genetic variation in uncoupling protein 3 is associated with dietary intake and body composition in females. <i>Metabolism: clinical and experimental</i> . 2004 Apr; 53 (4):458-64. PMID: 15045692.
43.	Mukhopadhyay I, Feingold E, Weeks DE. No "bias" toward the null hypothesis in most conventional multipoint nonparametric linkage analyses. <i>Am J Hum Genet</i> Oct 2004; 75(4): 716-8; author reply 723-7.
44.	Broman KW, Feingold E. SNPs made routine. <i>Nat Methods</i> Nov 2004; 1(2): 104-5.
45.	Kerstann KF, Feingold E, Freeman SB, Bean LJ, Pyatt R, Tinker S, Jewel AH, Capone G, Sherman SL. Linkage disequilibrium mapping in trisomic populations: analytical approaches and an application to congenital heart defects in Down syndrome. <i>Genetic epidemiology</i> . 2004 Nov; 27 (3):240-51. PMID: 15389927.
46.	Szatkiewicz JP, Feingold E. A powerful and robust new linkage statistic for discordant sibling pairs. <i>American journal of human genetics</i> . 2004 Nov; 75 (5):906-9. PMCID: PMC1182121. PMID: 15368196.
47.	Lamb NE, Yu K, Shaffer J, Feingold E, Sherman SL. Association between maternal age and meiotic recombination for trisomy 21. <i>American journal of human genetics</i> . 2005 Jan; 76 (1):91-9. PMCID: PMC1196437. PMID: 15551222.
48.	Szatkiewicz JP, Feingold E. QTL mapping with discordant and concordant sibling pairs: new statistics and new design strategies. <i>Genetic epidemiology</i> . 2005 May; 28 (4):326-40. PMID: 15662636.
49.	Corcoran DL, Feingold E, Dominick J, Wright M, Harnaha J, Trucco M, Giannoukakis N, Benos PV. Footer: a quantitative comparative genomics method for efficient recognition of cis-regulatory elements. <i>Genome research</i> . 2005 Jun; 15 (6):840-7. PMCID: PMC1142474. PMID: 15930494.
50.	Katsiaras A, Newman AB, Kriska A, Brach J, Krishnaswami S, Feingold E, Kritchevsky SB, Li R, Harris TB, Schwartz A, Goodpaster BH. Skeletal muscle fatigue, strength, and quality in the elderly: the Health ABC Study. <i>Journal of Applied Physiology (Bethesda, Md. : 1985)</i> . 2005 Jul; 99 (1):210-6. PMID: 15718402.
51.	Corcoran DL, Feingold E, Benos PV. FOOTER: a web tool for finding mammalian DNA regulatory regions using phylogenetic footprinting. <i>Nucleic acids research</i> . 2005 Jul 1; 33:W442-6. PMCID: PMC1160181. PMID: 15980508.
52.	Moffett SP, Feingold E, Barmada MM, Damcott CM, Marshall JA, Hamman RF, Ferrell RE. The C161-->T polymorphism in peroxisome proliferator-activated receptor gamma, but not P12A, is

	associated with insulin resistance in Hispanic and non-Hispanic white women: evidence for another functional variant in peroxisome proliferator-activated. <i>Metabolism: clinical and experimental</i> . 2005 Nov; 54 (11):1552-6. PMID: 16253648.
53.	Mukhopadhyay I, Feingold E, Wang T, Elston RC, Weeks DE. Treatment of uninformative families in mean allele sharing tests for linkage. <i>Statistical applications in genetics and molecular biology</i> . 2006; 5:Article 13. PMID: 17049024.
54.	Kamboh MI, Minster RL, Feingold E, DeKosky ST. Genetic association of ubiquilin with Alzheimer's disease and related quantitative measures. <i>Molecular psychiatry</i> . 2006 Mar; 11 (3):273-9. PMID: 16302009.
55.	Schaefer TM, Fuller CL, Basu S, Fallert BA, Poveda SL, Sanghavi SK, Choi YK, Kirschner DE, Feingold E, Reinhart TA. Increased expression of interferon-inducible genes in macaque lung tissues during simian immunodeficiency virus infection. <i>Microbes and infection / Institut Pasteur</i> . 2006 Jun; 8 (7):1839-50. PMID: 16822691.
56.	Sherman SL, Lamb NE, Feingold E. Relationship of recombination patterns and maternal age among non-disjoined chromosomes 21. <i>Biochemical Society transactions</i> . 2006 Aug; 34:578-80. PMID: 16856865.
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## 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.

## 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

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

## Publicly-Distributed Software

2007 **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/>.

## University Service

### Emory University

1994	Vice-chair	Biostatistics Department Ph.D. 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 M.P.H. 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 Ph.D. Program
2001-2003	Member	Interdisciplinary Biomedical Sciences Ph.D. 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 Ph.D., M.S., and M.P.H. programs
2010-2011	Curriculum Committee	Department of Human Genetics Ph.D. 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 Ph.D. Qualifying Exam Committee

### University of Pittsburgh Graduate 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-	Member	University Council on Graduate Studies
2012-	Internal Grant Reviewer	CTSI
2011-2014	Member	ICRE KL2 program Multidisciplinary Advisory Committee

## Editorial Boards

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

## Journal Refereeing

Academic year:	1993 - 1997	1998 - 2002	2003 - 2007	2008 - 2012	2013-present
Total	30	70	81	54	48

Most common journals in the last few years include Genetic Epidemiology, Bioinformatics, Human Genetics, BMC Genomics, Biometrics, The American Journal of Human Genetics

## Study sections and other review panels - regular panel memberships

2006 - 2009	<b>NIH Biostatistical Methods and Study Design Study Section</b>
2010 - 2014	<b>NIH CIDR Access Committee</b>

## Study sections and other review panels - ad hoc service

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

2015	<b>NIH special review panel for eMERGE 3 proposals</b>
2015	<b>Wellcome Trust</b>
2015	<b>NIH special review panel for U01 on Alzheimer's sequencing</b>
2016	<b>NIH Genetics of Health and Disease study section</b>
2017	<b>NIH special emphasis panel – Development of the Gabriella Miller Kids First Pediatric Data Resource Center</b>
2017	<b>NIDCR special emphasis panel</b>
2018	<b>NIH Transformative Research Award initiative review panel</b>
2018	<b>NIDCR special emphasis panel</b>
2018	<b>NIH Skeletal Biology Structure and Regeneration study section</b>
2019	<b>NIH International and Cooperative Projects study section</b>
2019	<b>Cross-NIH special emphasis panel for Down syndrome</b>

## Service to professional organizations

Year	Role	Organization
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

Year	Role	Organization
2009-2010	Chair	Analysis subcommittee of the NIH GENEVA consortium steering committee
2011-2013	Organizing committee	Social and Scientific Systems annual statistical symposium
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

## Community Service

- 1995      Consulted with the New Jersey Public Defender's office on forensic DNA evidence in a death penalty appeal.
- 2005,      Pittsburgh Regional Science & Engineering Fair judge (representing American Statistical  
2008      Association)
- 2005-      Give annual talk to local AP statistics class on applications in genetics.  
2018
- 2006-      Coached robotics teams for Falk School, Pittsburgh  
2010

## Consultantships

- 1998      Consulted for Glaxo on methods for gene mapping in small isolated populations.