

**Gary A. Heiman
Curriculum Vitae**

**Gary A. Heiman
Curriculum Vitae
March 21, 2017**

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Department of Genetics
145 Bevier Road
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TELEPHONE (848) 445-9576 **FAX:** 732-445-1147
E-Mail: heiman@dls.rutgers.edu **CITIZENSHIP:** U.S.

EDUCATION

2002 Ph.D. Columbia University Graduate School of Arts and Sciences, New York, NY;
Epidemiology. Ph.D. conferred 2/2002; Thesis: Psychiatric manifestations of the
DYT1 dystonia gene: a test of pleiotropy (defended 11/12/01). Under supervision
of Dr. Ruth Ottman
1998 M.Phil. Columbia University Graduate School of Arts and Sciences, New York, NY
1989 M.S. Sarah Lawrence College, Bronxville, NY; Human Genetics
1983 B.A. Boston University, Boston, MA; Psychology

FELLOWSHIP

1994 - 1999 NIMH Pre-doctoral Fellowship in Psychiatric Epidemiology, Psychiatric
Epidemiology Training Program, Columbia University, Director: Bruce Link, Ph.D.
Research Training in Psychiatric Epidemiology (T32MH13043)

ACADEMIC APPOINTMENTS AND OTHER WORK EXPERIENCE

2016 - Present Associate Professor (with Tenure), Rutgers, The State University of New Jersey,
School of Arts and Sciences, Department of Genetics, Piscataway, NJ
2012 - 2013 Visiting Assistant Professor, Rutgers, The State University of New Jersey, College
of Nursing, Piscataway, NJ
2010 - 2016 Assistant Professor, Rutgers, The State University of New Jersey, School of Arts
and Sciences, Department of Genetics, Piscataway, NJ
2007 - Present Member, Rutgers, The State University of New Jersey, Human Genetics Institute of
New Jersey, Piscataway, NJ
2007 - 2010 Research Assistant Professor, Rutgers, The State University of New Jersey, School
of Arts and Sciences, Department of Genetics, Piscataway, NJ
2007 - Present Adjunct Assistant Professor, Columbia University, Mailman School of Public
Health, Department of Epidemiology, New York, NY
2005 - 2007 Assistant Professor, Columbia University, Mailman School of Public Health,
Department of Epidemiology, New York, NY
2002 - 2005 Associate Research Scientist, Columbia University, Mailman School of Public
Health, Department of Epidemiology, New York, NY

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- 4/2002 - 9/2002 Visiting Researcher, University Hospital of Geneva, Division of Clinical Epidemiology; Geneva, Switzerland
- 1992 - 2002 Associate in Clinical Psychiatry, Columbia University Department of Psychiatry, New York, NY
- 1998 - 2002 Research Scientist II, New York State Psychiatric Institute, Division of Clinical-Genetic Epidemiology New York, NY
- 1990 - 1998 Research Scientist I, New York State Psychiatric Institute, Division of Clinical-Genetic Epidemiology, New York, NY
- 1989 - 1990 Staff Associate in Neurology, Columbia University Department of Neurology, New York, NY
- 1986 - 1987 Research Assistant/Recruiter, Alcohol/Drug Abuse Research Center, McLean Hospital, Belmont, MA
- 1983 - 1986 Mental Health Worker, McLean Hospital, Belmont, MA,
- 1982 - 1983 Mental Health Aide, Massachusetts Mental Health Center, Brookline, MA

HONORS AND AWARDS

- 3/2015 Election as a Fellow of the American Psychopathological Association; Fellows are individuals living in and outside of the United States who have made important, original, and independent contributions to knowledge of psychopathology
- 3/2012 President's Special Award, American Psychopathological Association
- 3/2009 Distinguished Service Award, American Psychopathological Association
- 5/2002 Anna C. Gelman Award for Excellence in Epidemiology, Columbia University Department of Epidemiology
- 3/2002 Election as a Member of the American Psychopathological Association; Members are individuals who have made important contributions to knowledge of psychopathology
- 3/2001 Student Leadership Award, American Psychopathological Association
- 3/2000 Election to American Psychopathological Association, Student Member
- 1989 Nominated National Collegiate Natural Science Award

RESEACH GRANTS

a) Active

- 2016 - Present Principal Investigator (Multiple PI), Center of Excellence for Tourette Syndrome & Associated Disorders Genetics Repository; 07/01/16-06/30/17
- 2015 - Present Principal Investigator (Multiple PI), Contract with University of California, San Francisco, Genetics Repository; 09/01/15-08/31/16 (NCE until 6/30/17)
- 2013 - Present Co-Investigator, NIH/NIMH; NIMH Center for Collaborative Genetic Studies of Mental Disorders; 07/1/2013-05/31/2018, (U24MH068457)
- 2009 - Present Principal Investigator, Parkinson's Disease and LRRK2 Research; Sub-contract from Beth Israel Hospital, New York, NY; 9/1/2009-8/31/2016 (NCE until 8/31/17)

b) Pending

- 2016 - 2021 Co-Principal Investigator (Multiple PI), NIH/NIMH; Collaborative genomic studies of Tourette Disorder; 4/1/2017-3/31/2022 (Competitive renewal)

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c) Completed

- 2015 - 2016 Principal Investigator (Multiple PI), Center of Excellence for Tourette Syndrome & Associated Disorders Genetics Repository; 07/01/15-06/30/16
- 2013 - 2015 Principal Investigator, NIH/NIMH; Administrative Supplement for Collaborative genomic studies of Tourette Disorder; 7/1/2013-6/30/2014 (NCE until 6/30/15) (R01 MH092293)
- 2014 - 2015 Co-Principal Investigator (Multiple PI), New Jersey Center for Tourette Syndrome; New Jersey Center for Tourette Syndrome Sharing Repository; 07/01/14-06/30/15
- 2013 - 2014 Co-Principal Investigator (Multiple PI), New Jersey Center for Tourette Syndrome; New Jersey Center for Tourette Syndrome Sharing Repository; 07/01/13-06/30/14
- 2012 - 2013 Co-Investigator, NIH/NIMH; Administrative Supplement for Collaborative genomic studies of Tourette Disorder; 9/26/2012-6/30/2013 (R01 MH092289)
- 2012 - 2013 Co-Principal Investigator (Multiple PI), New Jersey Center for Tourette Syndrome; New Jersey Center for Tourette Syndrome Sharing Repository; 07/01/12-06/30/13
- 2011 - 2015 Co-Principal Investigator (Multiple PI), NIH/NIMH; Collaborative genomic studies of Tourette Disorder; 9/15/2011-6/30/2014 (NCE until 6/30/15) (R01 MH092293)
- 2011 - 2012 Co-Principal Investigator (Multiple PI), New Jersey Center for Tourette Syndrome; New Jersey Center for Tourette Syndrome Sharing Repository; 01/01/11-06/30/12
- 2009 - 2010 Co-Investigator, Bachmann-Strauss Dystonia & Parkinson Foundation; Long term Clinical Outcomes in DYT1 Dystonia; 01/01/2009-12/31/2010
- 2008 - 2013 Co-Investigator, NIH/NIMH; NIMH Center for Collaborative Genetic Studies of Mental Disorders; 09/26/2008-05/31/2013, (U24 MH068457)
- 2008 - 2009 Co-Investigator, NIH/NHGRI; NHGRI EpiGenVar Coordinating Center; 07/08/2008 - 05/31/2012, (U01HG004801)
- 2007 - 2013 Principal Investigator, NIH/NINDS; Shared Genetic Risk for Epilepsy and Depression; 09/30/2007-06/30/2012, (one year NCE) (K23 NS054981)
- 2007 - 2010 Co-Investigator, New Jersey Center for Tourette Syndrome; New Jersey Center for Tourette Syndrome Sharing Repository; FY07-08; FY08-09; FY09-10
- 2005 - 2007 Principal Investigator, Epilepsy Foundation; Familial aggregation study of epilepsy and affective disorders; 6/05-5/06 (No cost extension to 7/30/07)
- 1999 - 2000 Co-Investigator, Singer Foundation Grant, Beth Israel Hospital, New York, NY; Psychiatric Manifestations of Dystonia Genes
- 1999 - 2000 Co-Investigator, Dystonia Medical Research Foundation Grant; The Phenotypic Spectrum of Dystonia Genes: Psychiatric Manifestations of DYT-1, DYT-5, and DYT-11

SCHOLARLY ACTIVITY

a) Invited presentations at professional conferences, universities or societies

1. “Tourette Syndrome and Genetics: The Whole Tic & Kaboodle”, Tourette Syndrome Fellowship Program, Graduate School of Applied and Professional Psychology, Rutgers University, Piscataway, NJ, September 29, 2016.
2. “Genetic Architecture of Tourette Syndrome: Searching for Rare Variants”, Medical Genetics Seminar, Joan H. Marks Graduate Program in Human Genetics, Sarah Lawrence College, Bronxville, NY, April 18, 2016.

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3. “Tourette Syndrome and Genetics: The Whole Tic & Kaboodle”, NIMH Psychiatric Epidemiology Training Program, Faculty Fellow Seminars, Columbia University, New York, NY, February 25, 2016.
4. “Tourette Syndrome and Genetics: The Whole Tic & Kaboodle” Tourette Syndrome Fellowship Program, Graduate School of Applied and Professional Psychology, Rutgers University, Piscataway, NJ, September 3, 2015.
5. “De Novo Genomic Variation in Tourette’s Disorder” (with Dr. Tom Fernandez), Columbia University Seminar in Genetic Epidemiology, New York, NY, March 12, 2015.
6. “Genetic epidemiology and methods of gene discovery in Tourette Disorder (TD) and associated conditions” Human Genetics Association of New Jersey meeting, Saint Peter's University Hospital, New Brunswick, NJ, September 9, 2014.
7. “Tourette Syndrome and Genetics: The Whole Tic & Kaboodle” Tourette Syndrome Fellowship Program, Graduate School of Applied and Professional Psychology, Rutgers University, Piscataway, NJ, September 4, 2014.
8. “Genetic Epidemiology and Methods of Gene Discovery in Tourette Syndrome and Associated Conditions”, Symposium: Tourette's Disorder: What is New in Epidemiology and Genomics?, Annual Meeting of the American Academy of Child and Adolescent Psychiatry (AACAP), Orlando, FL, October 22-27, 2013.
9. “Everything you wanted to know about the Heiman lab (but were afraid to ask)”, Department of Genetics Faculty meeting, Piscataway, NJ, February 15, 2013.
10. “Understanding the comorbidity between physical and psychiatric disorders”, Rutgers University, College of Nursing, Newark, NJ, October 22, 2012.
11. “Tourette International Collaborative (TIC) Genetic Study”, Presenter, NIH sponsored workshop: Finding the Way Forward in Tourette Syndrome Genetics”, Bethesda, MD, July 31, 2012.
12. “Searching for the genes of Tourette’s: The Tourette International Collaborative Genetics Study (TIC GENETICS)”, Paediatric Neurosciences Department, Evelina Children's Hospital at St Thomas' Hospital, London, UK, June 12, 2012.
13. “Comorbidity of psychiatric and neurologic disorders: Chicken, egg, or a third option”, Rutgers University, College of Nursing, Newark, NJ, May 25, 2012.
14. “Tourette International Collaborative (TIC) Genetic Study: An international genetic study of Tourette's and associated disorders”
 - a. Yonsei University College of Medicine, Seoul, South Korea, April 10, 2012.
 - b. Seoul Metropolitan Eunpyeong Hospital, Seoul, South Korea, April 10, 2012.
 - c. The Myong-Ji Hospital, Koyang, Kyunggi-Do, South Korea, April 9, 2012.
 - d. Hallym Sacred Heart Hospital, Anyang, South Korea, April 9, 2012.
15. “Histamine Pathway findings in Tourette Syndrome”, Department of Neurology, University Hospital Hamburg-Eppendorf, Hamburg, Germany, December 16, 2011.
16. “Tourette International Collaborative (TIC) Genetics Study: An international study of Tourette and associated disorders”, Yulius Academie for Mental Health, Barendrecht, The Netherlands, December 15, 2011.

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17. “Recruitment status of Tourette International Collaborative (TIC) Genetics Study”, 1st Joint meeting of European Network for the Study of Gilles de la Tourette Syndrome (EUNetGTS) and Enhancing the Scientific Study of Early Autism (ESSEA), Amsterdam, The Netherlands, December 14, 2011.
18. “Tourette International Collaborative (TIC) Genetics Study: Study description and methods”, Accare Child and Adolescent Psychiatry University Centre, Groningen, The Netherlands, December 12, 2011.
19. “Tourette International Collaborative Genetic Repository: A Proposal”, Annual meeting of the European Society for Studies into Tourette’s Syndrome, London, UK, May 13, 2011
20. “The importance of personal connections for a research career”, NIMH Genetics of Complex Disorders Training Program, Weekly seminar meeting, Columbia University, New York, NY, March 15, 2011.
21. “Comorbidity of psychiatric and neurologic disorders: Chicken, egg, or a third option”, Genetics Seminar Series, Department of Genetics, Rutgers University, Piscataway, NJ, January 28, 2010.
22. “Why do we think Tourette Syndrome is genetic?”, Lecture to physicians, Bergen Regional Medical Center, Paramus, NJ, April 4, 2009.
23. “Psychiatric manifestations of the DYT1 dystonia gene: reactive effects or shared etiology?”, Epidemiology Journal Club, Department of Epidemiology, UMDNJ-School of Public Health, Piscataway, NJ, February 3, 2009.
24. “Tourette Syndrome Repository”, In-service for Rutgers University Cell and DNA Repository, Piscataway, NJ, August 8, 2008.
25. “Family history as a risk factor for drug initiation, dependence and conditional dependence”, Symposium on Substance Use Disorders in the U.S., Annual Meeting of the American Psychiatric Association, Toronto, Canada, May, 2006.
26. “Heritability: Twin and adoption studies of psychiatric disorders” Child Psychiatry Research Fellows' Seminar, Columbia University, Department of Psychiatry New York, NY, March 22, 2005.
27. “Effects of population stratification on false positive rates in association studies: a simulation study”
 - e. NIMH Psychiatric Epidemiology Training Program, Faculty Fellow Seminars, Columbia University, New York, NY, February 5, 2004.
 - f. Columbia University Seminar in Genetic Epidemiology, New York, NY, January 22, 2004.
28. “Psychiatric manifestations of the DYT1 dystonia gene: evidence for recurrent major depression”
 - g. Movement Disorder Seminars, Department of Neurology, Columbia University, New York, NY, March 4, 2003.
 - h. Department of psychiatry, Belle-Idee, University Hospital of Geneva, Geneva, Switzerland, September 19, 2002.
 - i. Faculty of Medicine, Division of Medical Genetics, University Hospital of Geneva, Geneva, Switzerland, September 10, 2002.
 - j. Sergievsky Center Seminars, Columbia University, NY, March 13, 2002.

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29. "Alternative career opportunities for a genetic counselor," Sarah Lawrence College, Bronxville, NY, January 25, 1999.
30. "Age-at-interview bias in anticipation studies: computer simulations and an example with panic disorder"
 - k. Columbia University Seminar in Genetic Epidemiology, New York, NY, February 13, 1997.
 - l. NIMH Sponsored Conference of Training Programs in Psychiatric Epidemiology and Biostatistics, Boston, MA, June 12, 1996.
 - m. NIMH Psychiatric Epidemiology Training Program, Faculty Fellow Seminars, Columbia University, New York, NY, May 2, 1996.
31. "Data Presentation: from Shaky, Disorganized and Forgettable to Confident, Powerful and Memorable," NIMH Psychiatric Epidemiology Training Program, Faculty Fellow Seminars, Columbia University, New York, NY, March 9, 1995.
32. "Ethical Issues in Genetic Counseling," Sixth Annual New York State Office of Mental Health Research Conference, Albany, NY, December 7, 1993.
33. "Legal and Ethical Issues in Psychiatric Genetics," NIMH Psychiatric Epidemiology Training Program, Faculty Fellow Seminars, Columbia University, New York, NY, May 6, 1993
34. "Basic Principles of Genetics", Lecture to the Department of Psychiatry and Behavioral Medicine, University South Florida, Tampa, FL, 1991.

b) Other presentations or lectures:

1. Presenter, Tim Howard Leadership Academy for Tourette's disorder, Piscataway, NJ, August 7, 2015.
2. "Ask the Doc" Panel, NJCTS family retreat weekend, Port Murray, NJ, June 6, 2014.
3. "Genetic Architecture of Tourette Syndrome", Workshop: A workshop for parents of children with Tourette Syndrome, Virtua Voorhees Health & Wellness Center, Voorhees, NJ, February 8, 2014.
4. "Searching for the genes of Tourette's: The Tourette International Collaborative Genetics Study (TIC GENETICS)", 2013 Featured Study, Pennsylvania Tourette Syndrome Conference/Camp, PA Tourette Syndrome Alliance, Fairfield, PA, June 7, 2013.
5. "Why do we think Tourette Syndrome is genetic?", New Jersey Center for Tourette Syndrome family event, Atlantic Neuroscience Institute, Overlook Medical Center, Summit, NJ, March 9th, 2013.
6. "Why do we think Tourette Syndrome is genetic?", New Jersey Center for Tourette Syndrome family event, Ripa Center for Women's Health and Wellness at Cooper Hospital, Voorhees, NJ, November 17, 2012.
7. "Tourette Syndrome and Genetics: The Whole Tic & Kaboodle", Seattle Children's Hospital, Co-sponsored by TSA of Washington and Oregon, Inc., Puyallup, WA, November 3, 2012.
8. "Why do we think Tourette Syndrome is genetic?", New Jersey Center for Tourette Syndrome family event, Ripa Center for Women's Health and Wellness at Cooper Hospital, Voorhees, NJ, October 1, 2011.

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9. "Genetics of Tourette Syndrome", Guest speaker, 2011 Pennsylvania Tourette Syndrome Conference/Camp of the PA Tourette Syndrome Alliance, Fairfield, PA, July 28, 2011.
10. "Genetics of Tourette Syndrome", Guest speaker, New York City Chapter of Tourette Syndrome Association's Mentoring Brunch, New York, NY, November 8, 2009.
11. "New Jersey Center for Tourette Syndrome Sharing Repository", Lecture to families at "Wonderful Weekend Away at Camp Bernie", Port Murray, NJ, June 6, 2009.
12. "Genetic Linkage Studies and Dystonia", Lecture to the Seattle Chapter of Dystonia Foundation, Seattle, WA, 1989.

c) Newspaper interviews

- 10/15/2012 Interviewed by MyCentralJersey.com about fifth anniversary of NJCTS Sharing Repository. Article published on front page in: Morristown Daily Record (10/22); Courier News (10/21); Home News Tribune (10/21); MyCentralJersey.com (10/21); Asbury Park Press newspaper (10/21). Link to article: http://genetics.rutgers.edu/images/documents/NewsItems/2012_10_20_CourierNews_Tourette_syndrome.pdf
- 10/15/2012 Interviewed by NJBIZ about fifth anniversary of NJCTS Sharing Repository. Article published in NJBIZ on 10/15/12. Link to article: <http://www.njbiz.com/article/20121015/NJBIZ01/121019898/Advocacy-group-Rutgers-partner-to-facilitate-research>

d) Membership/Offices Held in Scholarly and Professional Societies

- 2014 - Present Member, Human Genetics Association of New Jersey, Inc
- 2013 - Present Election to leadership council member and local arrangements chair, American Psychopathological Association
- 2011 - 2012 Member, Movement Disorder Society
- 2007 - Present Member, International Society of Psychiatric Genetics
- 1999 - 2009 Coordinator and leadership council member, American Psychopathological Association
- 1999 - Present Election to American Psychopathological Association (membership is by nomination and election)
- 1995 - 2005 Member, Society for Epidemiological Research
- 1995 - 1999 Member, American Public Health Association
- 1990 - 1999 Member, National Society of Genetic Counselors
- 1990 - Present Member, American Society of Human Genetics

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SERVICE

a) Departmental and University

- 2016 - Present Member; SAS Advisory Committee for Appointments and Promotions to Associate Professor with Tenure, School of Arts and Sciences, Rutgers, The State University of New Jersey
- 2016 - Present Program Webmaster, Genetic Counseling Master's Program (GCMP); Graduate Program in Microbiology and Molecular Genetics; Rutgers, The State University of New Jersey
- 2016 - Present Member; Faculty Retreat Committee, Department of Genetics, Rutgers, The State University of New Jersey
- 2016 - Present Member; Active Learning Committee, Division of Undergraduate Academic Affairs, Rutgers, The State University of New Jersey
- 2015 - Present Program Leadership and Admissions Committee; Genetic Counseling Master's Program (GCMP); Graduate Program in Microbiology and Molecular Genetics; Rutgers, The State University of New Jersey
- 2015 - Present Director of Student Research; Genetic Counseling Master's Program (GCMP); Graduate Program in Microbiology and Molecular Genetics; Rutgers, The State University of New Jersey
- 2015 Chair, Faculty Search Committee, Clinical Assistant Professor, Program Director for Graduate Program in Genetic Counseling; Department of Genetics; Rutgers, The State University of New Jersey
- 2014 - 2015 Member; Non-Tenure Track Mentoring/Evaluation Committee for Douglas Londono, Assistant Research Professor, Department of Genetics, Rutgers, The State University of New Jersey
- 12/2014 Presenter; Curriculum Development Breakout Group, RBHS-Biomedical Sciences Retreat, Rutgers, The State University of New Jersey
- 2013 - 2014 Member, Faculty Search Committee, Computational Genetics Faculty Position; Department of Genetics; Rutgers, The State University of New Jersey
- 2012 Member; Departmental Promotional Reading Committee, Research Assistant Professor Promotion for Kathleen Tobin, Department of Genetics, Rutgers, The State University of New Jersey
- 2011 Member; Departmental Promotional Reading Committee, Research Assistant Professor Promotion for Marco Azaro, Department of Genetics, Rutgers, The State University of New Jersey
- 2011 Member; Division of Life Sciences Website Development Committee; Division of Life Sciences, Rutgers, The State University of New Jersey
- 2011 Chair; Departmental Seminar in Genetics Course Revision Committee, Department of Genetics, Rutgers, The State University of New Jersey
- 2011 - 2012 Headed redesign of Department of Genetics website. Requested by SAS Dean, Rutgers, The State University of New Jersey
- 03/2011 Department of Genetics Representative; School of Arts and Sciences Major's Day; Rutgers, The State University of New Jersey
- 2011 - Present Member, Undergraduate Curriculum and Assessment Committee; Department of Genetics; Rutgers, The State University of New Jersey

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- 2010 - 2011 Member, Faculty Search Committee, Computational Genetics Faculty Position; Department of Genetics; Rutgers, The State University of New Jersey
- 2010 - Present Member, Undergraduate Mentoring Committee member, Department of Genetics; Rutgers, The State University of New Jersey (3-8 students per year)
- 2010 - Present Director, Genetic Counseling Certificate Program; Department of Genetics; Rutgers, The State University of New Jersey
- 2009 - 2010 Member, Departmental Chair Search Committee; Department of Genetics; Rutgers, The State University of New Jersey
- 2008 - 2009 Chair, RUCDR conference booth redesign committee; Human Genetics Institute; Rutgers, The State University of New Jersey
- 2008 - 2010 Chair, Departmental laboratory website development committee; Department of Genetics; Rutgers, The State University of New Jersey
- 2008 - Present Department Webmaster Coordinator, Department of Genetics; Rutgers, The State University of New Jersey
- 2008 - 2013 Chair, Departmental website redesign committee; Department of Genetics; Rutgers, The State University of New Jersey
- 2008 - 2009 Member, Faculty Search Committee; Department of Genetics; Rutgers, The State University of New Jersey
- 2007 - 2010 Member, Research Track Faculty Evaluation Committee, Department of Genetics, Rutgers, The State University of New Jersey
- 2007 - Present Director, New Jersey Center for Tourette Syndrome Sharing Repository, Rutgers, The State University of New Jersey
- 2003 - 2007 Member, Steering Committee, School of Public Health, Columbia University
- 2002 - 2007 Coordinator, Genetics of Complex Disorders Training Program, Columbia University
- 2002 - 2009 Webmaster, Department of Epidemiology; Columbia University

b) Regional/National/International

- 2014 - 2016 Member; TSA Center of Excellence at Rutgers, The State University of NJ/Atlantic Neuroscience Institute/New Jersey Center for Tourette Syndrome, Inc.
- 5/2014 Strategic planning review committee member, Graduate school strategic planning review meeting, Arcadia University Genetic Counseling Program's (AUGCP), Glenside, PA
- 4/2013 Judge, Young Investigator Best Oral presentation award, European Society for the Study of Tourette Syndrome, Athens, Greece
- 3/2009 Participant, NIH sponsored workshop: Tourette Syndrome GWAS Replication Workshop, Bethesda, MD
- 3/2009 Judge, North Jersey Regional Science Fair, Piscataway, NJ, 3/10-3/11/09
- 3/2002 Chair, New investigators session, American Psychopathological Association annual meeting, New York, NY

c) Journals and Textbooks

- 11/2015 Textbook reviewer, *Scientific Writing and Communication*, Third edition, Angelika Hofmann, Oxford University Press
- Manuscript reviews for: Archives of General Psychiatry; Neurology; Genes, Brain, and Behavior; Movement Disorders; European Journal of Neurology, and Preventative Medicine; PLOS ONE

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d) Community

- 2015 Mentor, Bergen County Academies Career Day, Hackensack, NJ, 2/10/15
2013 - 2014 Mentor, Bergen County Academies Science Day, Hackensack, NJ, 5/22/13, 5/29/14
2012 Scientific liaison between Rutgers and Bergen County Academies (BCA), a magnet high school in northern, NJ. RUCDR and the Tischfield lab provided human and mouse DNA to the BCA's stem cell center. Human DNA was from de-identified human control subjects and mouse DNA was from wild-type and mutant strains, strains that produce bladder and kidney stone formation. This activity was requested by Dr. Kenneth J. Breslauer, Dean and Vice President, Life and Health Sciences and Donald G. Shatinsky, a member of the New Jersey Economic Development Authority.
2005 - 2006 Member, Board of Trustees, Teaneck Community Charter School (TCCS), Teaneck, NJ

SPECIALIZED TRAINING

- 09/2009 Certified trainer for World Health Organization Composite International Diagnostic Interview

TEACHING EXPERIENCE

Curricular Development - Programs and Courses Developed

- 2016 **Course Development;** 16:681:598- Research Methods for Genetic Counseling, Graduate Programs in Microbiology and Molecular Genetics, Graduate School of New Brunswick, Rutgers University.
Website: <http://gcmp.rutgers.edu/academics/course-descriptions>
The objective of this course is to help students gain competence in initiating and conducting an empirical research study. The course is designed to guide genetic counseling students in developing their topic and research question for their independent research thesis. Topics include the selection and framing of a research question, building hypotheses, developing measurements, designing appropriate methods (such as experimentation, survey, field work, and using available data), drafting a research proposal, submitting an institutional review board (IRB) protocol, conducting a literature review, and creation of a thorough, clear, well-organized research report.
- 2015 **Program Development;** Genetic Counseling Master's Program, Department of Genetics, Rutgers University;
In 2014, I initiated and led a working group in submitting a proposal to establish the only Genetic Counseling training program in New Jersey at Rutgers University. In February of 2015, the Genetic Counseling Master (GCM) Program was approved by the Executive Dean of SAS. We have begun the administrative work to initiate the GCM program and to obtain preliminary accreditation by the Accreditation Council for Genetic Counseling. The plan is to run the GCM program as a track within Graduate Program in Microbiology and Molecular Genetics and begin accepting students in the fall of 2017.
- 2012 **Course Development;** 01:448:430 (Fall, Spring- 3credits)- Effective Communication Skills in Genetics, Department of Genetics, Rutgers University.

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SAS Core Curriculum: *Cognitive Skills and Processes: Writing and Communication* (WCr and WCd)

Website: <http://genetics.rutgers.edu/students-academics/undergraduate/course-descriptions/14-courses/228-effective-communication-skills-in-genetics-01-447-430>

Communication is an essential part of science. Whether it is communicating research findings to other scientists or conveying complex concepts to a lay audience, a scientist must have effective communication skills in order to succeed. Communication in science is typically through publications, posters, or oral presentations. The goal of this course is provide students practice in effectively communicating scientific findings. This includes preparing and revising an introduction for scientific papers, writing a research description for general audience, and preparing and giving presentations (both oral and poster).

Course Goals:

- (1) effectively incorporate critiques from peers and faculty in their revision of written and oral communication,
- (2) effectively describe their research, using relevant discipline-specific terminology with precision, accuracy & purpose,
- (3) accurately and effectively present advanced scientific concepts through oral presentations and poster formats.

Featured on: SAS- News & Events website on 8/11/15: <http://sas.rutgers.edu/news-events/student-news/1794-student-scientists-at-rutgers-learn-the-art-of-communication>

2010 **Program Development;** Genetic Counseling Certificate Program (GCCP), Department of Genetics, Rutgers University;

Website: <http://genetics.rutgers.edu/students-academics/undergraduate/genetic-counseling>

The GCCP program is intended for a select group of students interested in applying to masters-level programs. The goal is to provide students with guidance, coursework, and relevant clinical experience to improve their graduate school applications. To receive the certificate, students must: 1) Complete a series of didactic courses; 2) Complete the Genetic Counseling Rotation course, and 3) Complete a year-long Crisis Volunteer Experience.

Featured on:

- 1) SAS- News & Events website on 10/27/11: <http://sas.rutgers.edu/news-a-events/feature-archive/1207-genetic-counseling-certificate-program-gives-students-advantage>
- 2) Rutgers Today website on 9/1/2011 <http://news.rutgers.edu/focus/issue.2011-09-01.8807267282/article.2011-09-14.8460008555>

2010 **Course Development;** 01:448:488 (Fall, Spring, Summer- 3credits) Genetic Counseling Rotation Course, Department of Genetics, Rutgers University

Website: <http://genetics.rutgers.edu/students-academics/undergraduate/course-descriptions/14-courses/174-genetic-counseling-rotation-01-447-488>

The goal of this course is to provide students with an understanding of the career of a genetic counselor. Students will be placed at a local Genetics Counseling clinic to shadow a genetic counselor for one semester. They are expected to spend at least 8 hours

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a week at the rotation. At the end of the program students will: 1) understand Genetic Counseling as a profession; 2) understand application requirements for masters-level programs; 3) gain experience in a clinical Genetic Counseling clinic.

Special Courses Taught or Chaired

2004- Present **Chair, Seminar in Genetic Epidemiology**; University Seminars at Columbia University (Seminar #577)- The purpose of this seminar is to bring together researchers in human genetics, epidemiology, and related disciplines, to discuss issues of common interest. Topics focus primarily on genetic and environmental contributions to disease, and gene-environment interaction. Our goal is to use information from both human genetics and epidemiology to arrive at a methodology for understanding the complex etiology of common diseases.
Website: <http://universityseminars.columbia.edu/seminars/genetic-epidemiology/>

Courses Taught: Primary, Preceptor, or Co-director

2017 (Spring) 01:447:430- Instructor, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 21 students

2016 (Fall) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 students

2016 (Fall) 01:447:430- Instructor, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 17 students

2016 (Spring) 01:447:430- Instructor, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 25 students

2016 (Spring) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 2 students

2015 (Fall) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 3 students

2015 (Spring) 01:447:430- Instructor, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 20 students

2015 (Spring) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student

2014 (Spring) 01:447:430- Instructor, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 20 students

2014 (Summer) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 2 students

2014 (Fall) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student

2013 (Spring) 01:447:430- Instructor, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 9 students

2013 (Spring) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student

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- 2013 (Summer) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student
- 2013 (Fall) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 2 students
- 2012 (Spring) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student
- 2012 (Summer) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student
- 2012 (Fall) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student
- 2011 (Summer) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 3 students
- 2011 (Fall) 01:447:384- Co-Instructor, Genetic Analysis I, Department of Genetics, Rutgers University, 64 students
- 2011 (Fall) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 2 student
- 2010 (Spring) 01:447:488- Instructor, Genetic Counseling Rotation Course, Department of Genetics, Rutgers University, 1 student
- 2009 (Fall) 01:447:403- Instructor, Seminar in Genetics, Department of Genetics, Rutgers University
- 2008- 2015 01:447:481- Course Advisor and seminar proctor, Topics in Human Genetics, Department of Genetics, Rutgers University
- 2004-2007 P8405- Co-director, Genetics in Epidemiology, Department of Psychiatry, Columbia University, 20-30 students
- 1994 P6440- Preceptor, Genetic Epidemiology in Child Psychiatry, Department of Psychiatry, Columbia University, 10-15 students

Courses Taught: Lecturer

- 2016 P8410 – (Fall 2016) Lecturer, Graduate level, Psychiatric Epidemiology, Columbia University, Department of Epidemiology, Lecturer, 20-30 students
- 2016 16:681:535 (Fall 2016)- Lecturer, Graduate level, Human Genetics, Microbiology and Molecular Genetics Joint Graduate program, Rutgers University, 18 students
- 2016 01:447:414 (Spring 2016)- Lecturer, Thesis Writing and Communication in Genetics, Department of Genetics, Rutgers University, 11 students
- 2016 01:447:354- Lecturer, Social, Legal and Ethical Implications of the New Genetics, Department of Genetics, Rutgers University, 49 students
- 2014 01:447:414 (Fall 2014)- Lecturer, Thesis Writing and Communication in Genetics, Department of Genetics, Rutgers University, 15 students

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- 2014 01:447:430 (Fall 2014)- Lecturer, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 12 students
- 2013 01:090:101 (Fall 2013; Section 63 index 56965)- Byrne Seminar: The Gift of Life: Stem Cell Research and the Case of Henrietta Lacks; “Everything you wanted to know about Tourette Syndrome but were afraid to ask”, 20 students
- 2013 01:447:430 (Fall 2014)- Lecturer, Effective Communication Skills in Genetics, Department of Genetics, Rutgers University, 9 students
- 2010 01:448:403 (Fall, Sections A&B)- Seminar in Genetics, Department of Genetics, Rutgers University, Lecturer, 10-15 students, 2010
- 2004 M8290 - Human Genetics and Advanced Practice Nursing, Columbia University, Department of Nursing, Lecturer, 30-40 students
- 2003 - 2004 P8175 - Principles of Genetics for Biostatisticians, Columbia University, Department of Biostatistics, Lecturer, 5-10 students
- 1999 and 2002 P9480 - Research Seminars in Epidemiology, Columbia University, Department of Epidemiology, Lecturer, 30-40 students
- 1999, 2002, 2003 P8405 - Genetics in Epidemiology, Columbia University, Department of Epidemiology, Lecturer, 20-30 students
- 1998-2001 P8419 - Genetic Epidemiology in Psychiatry, Columbia University, Department of Psychiatry, Lecturer, 10-15 students
- 1996 Child Psychiatry Research Fellows' Seminar, Columbia University, Lecturer, 10-15 students
- 1991-1994, 1996 P6440 - Genetic Epidemiology in Child Psychiatry, Columbia University, Department of Psychiatry, 10-15 students, lecturer

RESEARCH TRAINING

a) Undergraduates

Genetic Counseling Certificate Program Mentoring

- 2016 - Present Rebecca Padersky
- 2016 - Present Ria Rungta
- 2016 - 2017 Francesca Spinosi
- 2015 - 2017 Amanda Peraino
- 2015 - 2017 Katherine Donohue
- 2015 - 2016 Brianna McDaniels
- 2015 - 2016 Tina Kushary
- 2015 - 2016 Carol Nowlen
- 2015 - 2016 Daniel Ilg
- 2014 - 2015 Vanessa Manso
- 2014 - 2015 Christine Dizenzo
- 2013 - 2015 Anthony Porto
- 2013 - 2014 Abbe Lai
- 2012 - 2014 Allysa Marie Go
- 2012 - 2014 Komal Trivedi

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2012 - 2014 Victoria Wagner
2012 - 2013 Shelley Bertino
2012 - 2013 Nicole Salvatore
2011 - 2013 Shrutika Yeola
2011 - 2013 Gabriela Ross
2011 - 2012 Deepa Balavijayan
2010 - 2012 Lauren Giannetti
2010 - 2012 Francesca Tubito
2010 - 2011 Catherine Au

Supervised in my lab

2013 - 2014 Pooja Patel, Research in Genetics (01:447:406-407)- 6 credits; Producing Histaminergic Neurons to Model Tourette Syndrome.
2010 Kristen Koprowski, Advanced Independent Study in Genetics (01:447:489-490)- 6 credits; Genetic Counseling Rotation and Genetic Epidemiology of Tourette Syndrome.
2010 Jane Maged, Advanced Independent Study in Genetics (01:447:489)- 3 credits; Genetic Counseling Rotation
2010 Jamira Parker, Advanced Independent Study in Genetics (01:447:489-490)- 6 credits; Genetic Counseling Rotation and Genetic Epidemiology of Tourette Syndrome
2010 Stephanie Nunziato, Advanced Independent Study in Genetics (01:447:489-490)- 6 credits; Genetic Epidemiology of Tourette Syndrome & Genetic Counseling Rotation
2009 Alejandra Gomez, Advanced Independent Study in Genetics (01:447:489)- 3 credits; Genetic Counseling Rotation
2009 Christina Gomez, Advanced Independent Study in Genetics (01:447:490)- 3 credits; Genetic Epidemiology of Tourette Syndrome
2008 Lauren Bierema, Advanced Independent Study in Genetics (447:489-490)- 6 credits; Genetic Epidemiology of Tourette Syndrome
2008 Paul Rothenberg, Post-baccalaureate

Thesis committee

2017 Christie Chang, Thesis committee member, Honors in genetics; Title: "SIP30 and RSEP1 Gene Involvement in Neuropathic Pain"
2015 - 2016 Varshani Yetrintala, Co-advisor, Interdisciplinary thesis committee; Title: "Religion, Spirituality, and Culture: A study of the barriers in the use of Genetic Counseling services"
2014 - 2015 Pooja Patel, Chair, Honors in genetics; Title: "Generating In Vitro Cell Culture Systems for Subsequent Functional Analyses in HDC-related Tourette Disorder"; Received High Honors
2013 Gabriel R. Arismendi, Aresty Honors in Biological Sciences thesis committee member; Title: "Strategy to Enrich Transfected Cells Using A Novel Cell Surface Marker."
2011 Jane Maged, Honors thesis committee member; Title: "The combined effects of reduced function of immunophilin FKBP and increased function of the copper transporter Ctr1 on the toxicity of Alzheimer's Beta Amyloid."
2008 - 2009 Molly Wood, Chair of honors thesis committee, Honors in Genetics (447:408-409)- 6 credits and Interdisciplinary Honors/Paul Robeson Scholar (090:494)- 3 credits; Title: "The Stigma of Neuropsychiatric Genetic Disorders: Tourette Syndrome as Model"

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Other

2013 Komal Trivedi, Faculty Mentor, First-year Interest Group Seminars (FIGS) Program;
Careers in the Sciences, Rutgers University

a) Doctoral Students

2015 - Present Nawei Sun, PhD student, "Genetics of Tourette's Disorder"; "Investigating genetic etiology of Tourette Disorder using patient-specific induced pluripotent stem cells (iPSCs) and iPSCs-derived neuronal cells"; Microbiology and Molecular Genetics, Graduate Program in Molecular Biosciences, Graduate School of New Brunswick, Rutgers, The State University of New Jersey. Co-Primary advisor (with Jay Tischfield)

2013 - Present Mohamed Abdulkadir, PhD Student, "Genetics of Tourette's Disorder"; University Medical Center Groningen (UMCG), the Netherlands, Primary advisor during two-years at Rutgers.

PUBLICATIONS

Peer-Reviewed (*indicates senior or co-senior author)

[View on Google Scholar](#)

1. Insel B, Ottman R, and ***Heiman GA**. Mood disorders in familial epilepsy. (in preparation).
2. Willsey AJ, Fernandez TV, Dongmei Y, King RA, Xing J, Dietrich A, Sanders SJ, Mandell JD, Huang A, Richer P, Smith L, Dong S, Tourette International Collaborative Genetics (TIC Genetics), Tourette Syndrome Association International Consortium for Genetics (TSAICG), Coppola G, Mathews CA, Tischfield JA, *Scharf JM, *State MW, and ***Heiman GA**. De novo coding mutations are strongly associated with Tourette Disorder. (Neuron, in Press).
3. Gordon D, Londono D, Patel P, Kim W, Finch SJ, and ***Heiman GA**. An analytic solution to computation of power and sample size for genetic association studies under a pleiotropic mode of inheritance. Hum Hered 81:194–209, 2016. PMID: PMC Journal - In Process.
4. Alexander J, Potamianou H, Xing J, Deng L, Karagiannidis I, Tsetsos F, Drineas P, Tarnok Z, Rizzo R, Wolanczyk T, Farkas L, Nagy P, Szymanska Y, Androutsos C, Tsironi V, Koumoula A, Barta C, TSGeneSEE, Sandor P, Barr CL, Tischfield JA, Paschou P, ***Heiman GA**, and *Georgitsi M. Targeted re-sequencing approach of Gilles de la Tourette Syndrome candidate genes implicates rare potentially functional variants in Tourette Syndrome etiology. Front. Neurosci. 10:428, doi: 10.3389/fnins.2016.00428, 2016. PMID: PMC5026935.
5. Abdulkadir M, Tischfield JA, King RA, Fernandez TV, Brown LW, Cheon K, Coffey BJ, de Bruijn SFTM, Elzerman L, Garcia-Delgar B, Gilbert DL, Grice DE, Hagstrøm J, Hedderly T, Heyman I, Hong H, Huyser C, Ibanez-Gomez L, Kim Y, Kim YS, Koh Y, Kook S, Kuperman S, Lamerz A, Leventhal B, Ludolph AG, Madruga-Garrido M, Maras A, Messchendorp MD, Mir P, Morer A, Münchau A, Murphy TL, Openneer TJC, Plessen KJ, Rath JJG, Roessner V, Schunke O, Shin E, Sival DA, Song D, Song J, Stolte A, Tübing J, van den Ban E, Visscher F, Wanderer S, Woods M, Zinner SH, State MW, ***Heiman GA**, *Hoekstra PJ, and *Dietrich A. Pre- and perinatal complications in relation to Tourette syndrome and co-occurring obsessive-compulsive disorder and attention-deficit/hyperactivity disorder. Journal of Psychiatric Research 82:126–135, 2016. PMID: PMC5026935.

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6. Choi H, Hayat MJ, Zhang R, Hirsch LJ, Bazil C, Mendiratta A, Kato K, Javed A, Legge AW, Buchsbaum R, Resor S, and ***Heiman GA**. Drug resistant epilepsy in adults: outcome trajectories after failure of two medications. *Epilepsia* 57:1152–60, 2016. Public access policy: N/A.
7. Sun N, Tischfield JA, King RA, and ***Heiman GA**. Functional evaluations of genes disrupted in patients with Tourette's Disorder. *Front. Psychiatry* 7:11, doi: 10.3389/fpsy.2016.00011, 2016. PMID: PMC4746269.
8. Huertas-Fernández I, Gómez-Garre P, Madruga M, Bernal-Bernal I, Bonilla-Toribio M, Martín-Rodríguez JF, Cáceres-Redondo MT, Vargas-González L, Carrillo F, Pascual A, Tischfield JA, King RA, ***Heiman GA**, and *Mir P. *GDNF* gene is associated with Tourette syndrome in a family study. *Mov Disord* 30:1115–1120, 2015. PMID: PMC5036394.
9. de Leeuw C, Goudriaan A, Smit AB, Yu D, Mathews CA, Scharf JM, Pauls DL, Illmann C, Osiecki L, Neale BM, Reus VI, Lowe TL, Freimer NB, Cox NJ, Davis LK, Rouleau GA, Chouinard S, Dion Y, Girard S, Cath DC, Posthuma D, Smit JH, Heutink P, King RA, Fernandez T, Leckman JF, Sandor P, Barr CL, McMahon W, Lyon G, Leppert M, Morgan J, Weiss R, Grados MA, Singer H, Jankovic J, Tischfield JA, **Heiman GA**, Verheijen MH, and Posthuma D. Involvement of astrocyte metabolic coupling in Tourette syndrome pathogenesis. *Eur J Hum Genet.* 23:1519–1522, 2015. PMID: PMC4613465.
10. Dietrich A, Fernandez TV, King RA, State MW, Tischfield JA, Hoekstra PJ, ***Heiman GA**; the TIC Genetics Collaborative Group. The Tourette International Collaborative Genetics (TIC Genetics) study, finding the genes causing Tourette syndrome: objectives and methods. *Eur Child Adolesc Psychiatry* 24:141–151, 2015. PMID: PMC4209328.
11. Yu D, Mathews CA, Scharf JM, Neale BM, Davis LK, Gamazon ER, Derks EM, Evans P, Edlund CK, ..., **Heiman GA**, ... Tischfield JA, Turiel M, Duarte AVV, Vallada H, Veenstra-VanderWeele J, Walitza S, Walkup J, Wang Y, Weiss R, Wendland JR, Westenberg HGM, Yao Y, Hounie AG, Miguel EC, Nicolini H, Wagner M, Ruiz-Linares A, Cath DC, McMahon W, Posthuma D, Oostra BA, Nestadt G, Rouleau GA, Purcell S, Jenike MA, Heutink P, Hanna GL, Conti DV, Arnold PD, Freimer N, Stewart SE, Knowles JA, Cox NJ, and Pauls DL. Cross-disorder genome-wide analyses suggest a complex genetic relationship between Tourette's syndrome and OCD. *Am J Psychiatry* 172:82–93, 2015. PMID: PMC4282594.
12. McGrath K, Yu D, Marshall C, Davis LK, Thiruvahindrapuram B, Li B, Cappi C, Gerber G, Wolf A, Schroeder FA, Osiecki L, O'Dushlaine C, ..., **Heiman GA**, ..., Tischfield JA, Vallada H, Veenstra-VanderWeele J, Walitza S, Walkup J, Wang Y, Wendland JR, Westenberg HGM, Yao Y, Miguel EC, Nicolini H, Oostra BA, Moessner R, Wagner M, Ruiz-Linares A, Heutink P, Nestadt G, Freimer N, Petryshen T, Posthuma D, Jenike MA, Cox NJ, Hanna GL, Brentani H, Scherer SW, Arnold PD, Stewart SE, Mathews CA, Knowles JA, Cook EH, Pauls DL, Wang K, and Scharf JM. Copy number variation in obsessive-compulsive disorder and Tourette syndrome: a cross-disorder study. *J Am Acad Child Adolesc Psychiatry* 53:910–919, 2014. PMID: PMC4218748.
13. Paschou P, Fernandez T, Sharp F ***Heiman GA**, and *Hoekstra PJ. Genetic susceptibility and neurotransmitters in Tourette syndrome. *Int Rev Neurobiol* 112:155–77, 2013. PMID: PMC4471172.

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14. Davis LK, Yu D, Keenan C, Gamazon E, Konkashbaev A, Derks EM, Neale BM, Yang J, Lee H, Evans P, Barr CL, Bellodi L, ..., **Heiman GA**, ..., Tischfield JA, Nieuwerburgh FV, Veenstra-VanderWeele J, Walitza S, Walkup J, Wang Y, Weiss R, Wendland JR, Westenberg HGM, Miguel EC, McMahon W, Wagner M, Nicolini H, Posthuma D, Hanna GL, Heutink P, Denys D, Arnold PD, Oostra BA, Nestadt G, Freimer N, Pauls DL, Wray N, Stewart SE, Mathews CA, Knowles JA, Cox NJ, and Scharf JM. Partitioning the heritability of Tourette syndrome and obsessive compulsive disorder reveals differences in genetic architecture. *PLoS Genet* 9(10): e1003864. doi:10.1371/journal.pgen.1003864, 2013. PMID: PMC3812053.
15. Moya PR, Wendland JR, Andrews AM, Rubenstein LM, Timpano KR, **Heiman GA**, Tischfield JA, King RA, Ramamoorthy S, McMahon FJ and Murphy DL. Common and rare gain-of-function alleles of the serotonin transporter gene, SLC6A4, associated with Tourette disorder. *Mov Disord* 28:1263–70, 2013. PMID: PMC3766488.
16. Moya PR, Dodman NH, Timpano KR, Rubenstein LM, Rana Z, Fried RL, Reichardt LF, **Heiman GA**, Tischfield JA, King RA, Galdzicka M, Ginns EI, and Wendland JR. Rare missense neuronal cadherin gene (CDH2) variants in specific obsessive-compulsive disorder and Tourette disorder phenotypes. *Eur J Hum Genet* 21:850–854, 2013. PMID: PMC3722668.
17. Scharf JM, Yu D, Mathews CA, Neale BM, ... **Heiman GA**, ...Kurlan R, and Pauls DL. Genome-wide association study of Tourette syndrome. *Mol Psychiatry* 18:721–728, 2013. PMID: PMC3605224.
18. Fernandez T, Sanders S, Yurkiewicz IR, Ercan-Sencicek AG, Kim YS, Fishman D, Raubeson M, Song Y, Yasuno K, Winson H, Bilguvar K, Glessner J, Chu SH, Leckman J, King RA, Gilbert D, **Heiman GA**, Tischfield JA, Hoekstra PJ, Devlin B, Hakonarson H, Mane SM, Günel M, and State MW. Rare copy number variants in Tourette syndrome disrupt genes in histaminergic pathways and overlap with autism. *Biol Psychiatry* 71:392–402, 2012. PMID: PMC3282144.
19. Shanker VL, Groves, M, **Heiman GA**, Saunders-Pullman R, Ozelius, L, Palmese C, Raymond D, and Bressman SB. Mood and cognition in LRRK2 G2019S Parkinson's disease. *Mov Disord* 26:1875–1880, 2011. PMID: PMC3972755.
20. Gorroochurn P, Hodge SE, **Heiman GA**, and Greenberg DA. An improved delta-centralization method for population stratification. *Hum Hered* 71:180–185, 2011. PMID: PMC3561693.
21. Choi H, **Heiman GA**, Munger-Clary H, Etienne M, Resor SR, and Hauser WA. Seizure remission and relapse in adults with long-standing intractable epilepsy: an extended follow-up. *Epilepsy Res* 93:115–119, 2011. PMID: PMC3763242
22. Choi H, Wong JB, Mendiratta A, **Heiman GA**, and Hamberger MJ. Numeracy and framing bias in epilepsy. *Epilepsy Behav* 20: 29–33, 2011. PMID: PMC3022367.
23. **Heiman GA**, Kamberakis K, Kalachikov S, Pedley TA, Hauser WA, and Ottman R. Current depression in LGI1 epilepsy mutation carriers. *Epilepsia* 51:1685–1690, 2010. PMID: PMC2939248.
24. Ercan-Sencicek AG, Stillman AA, Ghosh A, Bilguvar K, O'Roak BJ, Mason CE, Abbott T, Gupta A, King RA, Pauls DL, Tischfield JA, **Heiman GA**, Singer HS, Gilbert DL, Hoekstra PJ, Loring E, Yasuno K, Fernandez T, Sanders S, Louvi A, Cho JH, Mane S, Colangelo CM, Biederer T, Lifton RP, Gunel M and State MW. L-histidine decarboxylase and Tourette's syndrome. *N Engl J Med* 362:1901–8, 2010. PMID: PMC2894694.

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25. Sanokawa-Akakura R, Cao W, Allan K, Patel K, Ganesh A, **Heiman GA**, Burke R, Kemp F, Bogden J, Camakaris J, Birge R, and Konsolaki M. Control of Alzheimer's amyloid beta toxicity by the high molecular weight immunophilin FKBP52 and copper homeostasis in *Drosophila*. PLoS ONE 5(1): e8626. doi:10.1371/journal.pone.0008626, 2010. PMCID: PMC2801609.
26. Choi H, Carlino RF, **Heiman GA**, Hauser WA, and Gilliam F. Evaluation of duration of epilepsy prior to temporal lobe epilepsy surgery during the past two decades. Epilepsy Research 86:224–227, 2009. PMCID: PMC3022376.
27. Bressman SB, Raymond D, Fuchs T, **Heiman GA**, Ozelius LJ, and Saunders-Pullman R. Mutations in THAP1 (DYT6) in early-onset dystonia: a genetic screening study Lancet Neurol 8:441–46, 2009. PMCID: PMC3712754.
28. Logue MW, Durner M, **Heiman GA**, Hodge SE, Hamilton SP, Knowles JA, Fyer AJ, and Weissman MM. A linkage search for joint panic disorder/bipolar genes. Am J Med Genet Part B (Neuropsychiatr Genet) 150B:1139–1146, 2009. PMCID: PMC3058784.
29. Heiman GA, King RA, and Tischfield JA. New Jersey Center for Tourette Syndrome sharing repository: methods and sample description. BMC Medical Genomics 1:58, 2008. URL: <http://www.biomedcentral.com/1755-8794/1/58>, PMCID: PMC2605751
30. Choi H, **Heiman GA**, Pandis D, Cantero J, Resor SR, Gilliam FG, and Hauser WA. Seizure remission and relapse in adults with intractable epilepsy: a cohort study. Epilepsia 49:1440–1445, 2008. PMCID: PMC3684178.
31. Raymond D, Saunders-Pullman R, de Carvalho Aguiar P, Schule B, Kock N, Friedman J, Harris J, Ford B, Frucht S, **Heiman GA**, Jennings J, Doheny D, Brin MF, Brin DDL, Mulhaupt-Buell T, Lang AE, Kurlan R, Klein C, Ozelius LF and Bressman SB. Phenotypic spectrum and sex effects in eleven myoclonus-dystonia families with epsilon-sarcoglycan mutations. Mov Disord 23:588–592, 2008. PMC Journal- In Process.
32. **Heiman GA**, Ogburn B, Gorroochurn P, Keyes K, and Hasin, DS. Evidence for a two-stage model of dependence using the NESARC and its implications for genetic association studies. Drug Alcohol Depend 92:258–266, 2008. PMCID: PMC2266584.
33. Gorroochurn P, Hodge SE, **Heiman GA**, and Greenberg DA. A unified approach for quantifying, testing and correcting population stratification in association studies (invited original paper). Hum Hered 64:149–159, 2007. PMCID: PMC2874730
34. Gorroochurn P, Hodge SE, **Heiman GA**, Durner M, and Greenberg DA. Non-replication in association studies: “pseudo-failures” to replicate? Genet Med 9:325–331, 2007.
35. Hess CW, Raymond D, de Carvalho Aguiar P, Frucht S, Shriberg J, **Heiman GA**, Kurlan R, Klein C, Bressman SB, Ozelius LF, and Saunders-Pullman R. Myoclonus-dystonia and the association with obsessive-compulsive disorder and alcohol dependence in manifesting SGCE carriers. Neurology 68:522–524, 2007.
36. **Heiman GA**, Ottman R, Saunders-Pullman R, Ozelius LJ, Risch NJ, and Bressman SB. Obsessive-compulsive disorder is not a manifestation of the DYT1 dystonia mutation. Am J Med Genet Part B (Neuropsychiatr Genet) 144B:361–364, 2007. PMCID: PMC3694482.

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37. Fyer AJ, Hamilton SP, Durner M, Haghghi F, **Heiman GA**, Costa R, Evrafov O, Adams P, deLeon A, Taveras N, Klein DF, Hodge SE, Weissman MM, and Knowles JA. A third-pass genome scan in panic disorder: evidence for multiple susceptibility loci. *Biol Psychiatry* 60:388–401, 2006.
38. Gorroochurn P, **Heiman GA**, Hodge SE, and Greenberg DA. Centralizing the non-central chi-square: a new method to correct for population stratification in genetic case-control association studies. *Genet Epidemiol* 30:277–289, 2006.
39. Tsai WY, **Heiman GA**, and Hodge SE. Simple tests for age-at-onset anticipation: application to panic disorder. *Genet Epidemiol* 28:256–260, 2005.
40. Gorroochurn P, Hodge SE, **Heiman GA**, and Greenberg DA. Effect of population stratification on case-control association studies. II: false-positive rates and their limiting behavior as number of subpopulations increases. *Hum Hered* 58:40–48, 2004.
41. **Heiman GA**, Hodge SE, Gorroochurn P, Zhang J, and Greenberg DA. Effect of population stratification on case-control association studies. I: elevation in false positive rates and comparison to confounding risk ratios (a simulation study). *Hum Hered* 58:30–39, 2004.
42. Hamilton SP, Slager SL, de Leon AB, **Heiman GA**, Klein DF, Hodge SE, Weissman MM, Fyer AJ, and Knowles JA. Evidence for genetic linkage between a polymorphism in the adenosine 2A receptor (ADORA2A) and panic disorder. *Neuropsychopharmacology* 29:558–565, 2004.
43. **Heiman GA**, Ottman R, Saunders-Pullman R, Ozelius LJ, Risch NJ, and Bressman SB. Increased risk for recurrent major depression in DYT1 dystonia mutation carriers. *Neurology* 63:631–637, 2004.
44. Hamilton SP, Slager SL, Mayo D, **Heiman GA**, Klein DF, Hodge SE, Fyer AJ, Weissman MM, and Knowles JA. Investigation of polymorphisms in the CREM gene in panic disorder. *Am J Med Genet Part B (Neuropsychiatr Genet)* 126B:111–115, 2004.
45. Weissman MM, Gross R, Fyer, AF, **Heiman GA**, Gaineroff MJ, Hodge SE, Kaufman D, Kaplan SA and Wickramaratne P. Interstitial cystitis and panic disorder: a potential genetic syndrome. *Arch Gen Psych* 61:273–279, 2004.
46. Hamilton SP, Fyer AJ, Durner, M, **Heiman GA**, de Leon AB, Hodge SE, Knowles JA, and Weissman MM. Further genetic evidence for a panic disorder syndrome mapping to chromosome 13q. *Proc Natl Acad Sci* 100: 2550–2555, 2003.
47. Ahsan H, Hodge SE, **Heiman GA**, Begg MD and Susser ES. Relative risk for genetic associations: the case-parent triad as a variant of case-cohort design. *Int. J. Epidemiol* 31:669–678, 2002.
48. Saunders-Pullman R, Shriberg J, **Heiman GA**, Raymond R, Wendt K, Kramer P, Schilling K, Kurlan R, Klein C, Ozelius LJ, Risch NJ, PhD and Bressman SB. Myoclonus dystonia: possible association with obsessive-compulsive disorder and alcohol dependence. *Neurology* 58:242–245, 2002.
49. Hamilton SP, Slager SL, **Heiman GA**, Deng Z, Haghghi F, Klein DF, Hodge SE, Weissman MM, Fyer AJ, and Knowles JA. Evidence for susceptibility locus for panic disorder near the catechol-o-methyltransferase gene on chromosome 22. *Biol Psychiatry* 51:591–601, 2002.

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50. Hamilton SP, Slager SL, Helleby L, **Heiman GA**, Klein DF, Hodge SE, Weissman MM, Fyer AJ, and Knowles JA. No association or linkage between polymorphisms in the genes encoding Cholecystokinin and the Cholecystokinin B receptor and panic disorder. *Mol Psychiatry* 6:59–65, 2001.
51. Hamilton SP, Slager SL, **Heiman GA**, Haghghi F, Klein DF, Hodge SE, Weissman MM, Fyer AJ, and Knowles JA. No genetic linkage or association between a functional promoter polymorphism in the Monoamine Oxidase-A gene and panic disorder. *Mol Psychiatry* 5:465–466, 2000.
52. Hamilton SP, Haghghi F, **Heiman GA**, Klein DF, Hodge SE, Fyer AJ, Weissman MM, and Knowles JA. Investigation of dopamine receptor (DRD4) and dopamine transporter (DAT) polymorphisms for genetic linkage or association to panic disorder. *Am J Med Genet B (Neuropsychiatr Genet)* 96:324–330, 2000.
53. Weissman MM, Fyer AJ, Haghghi F, **Heiman GA**, Deng Z, Hen R, Hodge SE, and Knowles JA. A potential panic disorder syndrome: clinical and genetic linkage evidence. *Am J Med Genet B (Neuropsychiatr Genet)* 96:24–35, 2000.
54. Hamilton SP, **Heiman GA**, Haghghi F, Mick S, Klein DF, Hodge SE, Weissman MM, Fyer AJ, and Knowles JA. Lack of genetic linkage or association between a functional serotonin transporter polymorphism and panic disorder. *Psychiat Genet* 9:1–6, 1999.
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