­­­Emily R. Davenport

Assistant Professor – Pennsylvania State University

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http://davenport-lab.github.io/  | @emo\_davenport 

Education

2009 - 2014 Ph.D in Human Genetics

*Certificate in University Teaching*

University of Chicago; Chicago, IL

Advisor: Yoav Gilad (supported by NIH training grant)

2003 - 2007 B.S. in Bacteriology (with comprehensive honors)

University of Wisconsin – Madison; Madison, WI

2005 International Study Program, selected participant

National University of Ireland, Galway; Galway, Ireland

Academic, Research, and Industry Experience

2019 - **Assistant Professor**. Department of Biology, Huck Institutes of the Life Sciences, Institute for Computational and Data Sciences; The Pennsylvania State University; University Park, PA.

2018 - 2019 Visiting Post-doctoral Fellow. Supervisor: Ruth Ley (supported by NIH NRSA)

Department of Microbiome Science, Max Planck Institute for Developmental Biology; Tübingen, Germany.

2014 - 2019 Post-doctoral Fellow. Advisor: Andrew Clark (supported by NIH NRSA)

Department of Molecular Biology and Genetics, Cornell University; Ithaca, NY.

2008 - 2009 Sequence Capture Technician. Supervisor: Mindy Bennett.

Roche NimbleGen; Madison, WI.

2007 - 2008 Forensic Scientist – DNA Analyst. Supervisor: Sherry Culhane.

DNA Unit, Department of Justice - Wisconsin State Crime Lab; Madison, WI.

2004 - 2007 Undergraduate Research Assistant/Independent Research. Advisor: Steven Barclay

Department of Bacteriology, University of Wisconsin – Madison; Madison, WI.

2006 International Research Experience for Students (IRES) in Microbiology Summer Research Program Participant. Advisor: Sukathida Ubol

Department of Microbiology, Mahidol University; Bangkok, Thailand.

Publications – peer reviewed

\* denotes equal contribution

Underlined denotes mentee author

Submitted

22. Ryu EP and **Davenport ER**. Host genetic determinants of the microbiome across animals: from C. elegans to cattle.

21. Jeganathan NA, **Davenport ER**, Yochum GS, Koltun WA. *The microbiome in diverticulitis*.

20. Nowak C, Eriksson N, van Setten J, Henry A, Stenemo M, Johansson Å, **Davenport ER**, Lagerqvist B, Becker R, Budaj A, Hagström E, Held C, Himmelmann A, Katus HA, Koenig W, Siegbahn A, Steg P, James S, Axelsson T, Syvänen A, Stewart R, Akerblom A, Storey R, Waterworth D, White H, Allayee H, Hartiala J, Hazen S, Wilson Tang WH, Asselbergs F, Howe L, McCubrey R, Tragante V, Quyyumi A, Alkhodar A, Liu C, San Y, Alver M, Metspalu A, Levin D, Mordi I, Lang C, Palmer C, Glinge C, Engstrøm T, Jabbari R, Tfelt-Hansen J, Delgado G, Kleber M, März W, Ford I, Wouter Jukema J, Scott D, Trompet S, Gijsberts C, Pasterkamp G, van der Laan S, Ingelsson E, Burgess S, Lumbers R, Patel R, Arnlov J, Wallentin L, and Fall T. *Causal effect of GDF-15 on cardiovascular disease and mortality – genome-wide association study and Mendelian randomization analysis*.

2021

19. Amato KR, Arrieta M, Azad M, Bailey MT, Broussard JL, Bruggeling C, Claud EC, Costello EK, **Davenport ER**, Dutilh BE, Swain Ewald HA, Ewald P, Hanlon EC, Julion WA, Keshavarzian A, Maurice CF, Miller GE, Preidis GA, Ségurel L, Singer BH, Subramanian S, Zhao L, Kuzawa CW. *The Human Microbiome and Health Inequities.* [Accepted PNAS]

18. Marderstein AR, **Davenport ER**, Kulm S, Van Hout C, Elemento O, Clark AG. *Leveraging phenotypic variability to identify genetic interactions in human phenotypes*. American Journal of Human Genetics. 2021;108(1)

2020

17. Nichols RG and **Davenport ER.** *The relationship between the gut microbiome and host gene expression: A review*. Human Genetics.140(5), 747-760 DOI: 10.1007/s00439-020-02237-0

2019

16. Gong X, Davenport ER, Wang D, Clark AG. *Lack of spatial and temporal genetic structure of Anguilla japonica populations*. Conservation Genetics. 2019;20:467

15. Kachoo P\*, Eraso JM\*, Beres SB, Olsen RJ, Zhu L, Nasser W, Bernard PE, Cantu CC., Ojeda Saavedtra M, José Arredondo M, Strope B, Do H, Kumaraswami M, Vuopio J, Gröndahl-Yli-Hannuksela K, Kristinsson KG, Gottfredsson M, Pesonen M, Pensar J, Davenport ER, Clark AG, Corander J, Caugant DA, Gaini S, Magnusses MD, Porter AR, DeLeoFR, and Musser JM. *Integrated analysis of population genomics, transcriptomics and virulence provides novel insights into* Streptococcus pyogenes *pathogenesis.* Nature Genetics. 2019;51 548-559

2018

14. Jha AR, Davenport ER, Gautam Y, Bhandari D, Tandukar S, Ng K, Holmes S, Prasad Gautam G, Bahadur Sherchand J, Bustamante CD, and Sonnenburg JL. *Gut microbiome transition across a life gradient in Himalaya.* PLoS Biology. 2018;16(11):e2005396 (epub 2018 Nov 15)

2017

13. Davenport ER\*, Sanders JG\*, Song SJ, Amato KR, Clark AG, and Knight R. *The human microbiome in evolution*. BMC Biology. 2017. 15:127

12. Goodrich JK, Davenport ER**,** Clark AG, and Ley RE. *The relationship between the human genome and microbiome comes into view*. Annual Reviews Genetics. 2017. 51(1)

11. Igartua C, Davenport ER, Gilad Y, Nicolae DL, Pinto J, and Ober C. *Host genetic variation in mucosal immunity pathways influences the upper airway microbiome*. Microbiome. 2017 Feb 1;5:16

2016

10.Davenport ER, Goodrich JK, Bell JT, Spector TD, Ley RE, Clark AG. *ABO antigen and secretor statuses are not associated with gut microbiota composition in 1,500 twins*. BMC Genomics. 2016 Nov 21;17:941

9. Beaumont M, Goodrich JK, Jackson MA, Yet I,Davenport ER, Vieira-Silva S, Debelius J, Pallister T Mangino M, Raes J, Knight R, Clark AG, Ley RE, Spector TD, and Bell JT. *Heritable components of the human fecal microbiome are associated with visceral fat*. Genome Biology. 2016 Sep 26;17:189

8. Goodrich JK, Davenport ER, Beaumont M, Jackson MA, Knight R, Spector TD, Bell JT, Clark AG, and Ley RE. *Genetic determinants of the gut microbiome in UK twins*. Cell Host and Microbe. 2016: 19(5), 731-743

7. Goodrich JK\*, Davenport ER\*, Waters JL\*, Clark AG, and Ley RE. *Cross-species comparisons of host genetic associations with the microbiome*. Science. 2016: 352(6285), 532-535

6.Davenport ER. *Elucidating the role of the host genome in shaping microbiome composition*. Gut Microbes. 2016: 7(2), 178-184

5. Blischak JD, Davenport ER, and Wilson G. *A quick introduction to version control with Git and GitHub*. PLoS Computational Biology. 2016;12(1):e1004668 (epub 2016 Jan 19)

2015

4.Davenport ER**,** Cusanovich DA, Michelini K, Barrerio LB, Ober C, and Gilad Y. *Genome-wide association studies of the human gut microbiota*. PLoS One. 2015;10(11):e0140301 (epub 2015 Nov 3)

-----> *An Editor’s Pick for the PLoS Microbiology special collection:*

http://collections.plos.org/microbiology-picks

-----> *An Editor’s Pick for the PLoS Experimental Biology special collection:*

http://collections.plos.org/experimental-biology

2014

3. Zhou X, Cain CE, Myrthil M, Lewellen N, Michelini K, Davenport ER, Stephens M, Pritchard JK, and Gilad Y. *Epigenetic modifications are associated with inter-species gene expression variation in primates*. Genome Biology. 2014 Dec 3;15(12):547

2.Davenport ER, Mizrahi-Man O, Michelini K, Barreiro LB, Ober C, and Gilad Y. *Seasonal variation in human gut microbiome composition*. PLoS One. 2014;9(3):e90731 (epub 2014 Mar 11)

2013

1. Mizrahi-Man O, Davenport ER, and Gilad Y. *Taxonomic classification of bacterial 16S rRNA genes using short sequencing reads: Evaluation of effective study designs*. PLoS One. 2013;8(1):e53608 (epub 2013 Jan 7)

Publications – non-peer reviewed

3. Ryu EP and **Davenport ER**. *Microbiome: Taming the beasts inside*. eLife 2021;10:e67634

2. **Davenport ER**. *Genetic variation shapes murine gut microbiota via immunity*. Trends in Immunology. 2020;41(1)

1. Davenport ER. *Tooth be told, genetics influence oral microbiome*. Cell Host & Microbe. 2017;22(3)

Presentations

Invited Plenary Platform Presentations

2020 **Davenport, ER**. *Role of host genetics in shaping the gut microbiota*. Gut Microbiome for Health World Summit. Madrid, Spain [note: presented remotely due to COVID-19]

Invited Platform Presentations

2020 **Davenport, ER**. *Using human genetics to understand the physiological basis of host microbiome interactions.* The Vanderbilt Institute for Infection, Immunology, and Inflammation (VI4) Annual Symposium [\*virtual due to COVID-19]

2020 **Davenport, ER**. *Using human genetics to understand the physiological basis of host microbiome interactions.* Workshop: Cultivating communities: Making sense of host-microbiome interactions through the lens of genetics. The Allied Genetics Conference (TAGC). Washington DC [\*virtual due to COVID-19]

2019 **Davenport, ER**. *Causes and consequences of human gut microbiome variation*. One Health Workshop. Pennsylvania State University. State College, PA

2019 **Davenport, ER**, Spector TD, Ley RE, and Clark AG. *Simultaneously modeling host genetics and microbiome impact on immune-related traits*. Pennsylvania State University Bioinformatics and Genomics Annual Retreat. State College, PA

2018 Davenport, ER, Spector TD, Ley RE, and Clark AG. *Simultaneously modeling host genetics and microbiome composition reveals the heritability and proportion of variance explained due to the microbiome for immune-related traits*. Probabilistic Modeling in Genomics (ProbGen). Cold Spring Harbor Labs, NY

\* Co-chair of “Cancer, the microbiome, and beyond” session

2017 Davenport ER. *Role of host genetics in shaping the gut microbiota*. The Human Capital and Economic Opportunity (HCEO) Working Group Conference on The Gut Microbiome in Human Biology and Health: New Opportunities for the Study of Health Disparities. Chicago, IL

2017 Davenport ER. *The role of host genetics in determining human gut microbiome composition*. The American Association of Physical Anthropologists Annual Meeting. Wiley Invited Podium Symposium - Humans as Holobionts: The Microbiome as a Biological System in Human Evolution. New Orleans, LA.

2016 Davenport ER. *The role of host genetics in determining human gut microbiome composition*. The 2016 Nordic-North American Symposium on Antimicrobial Resistance and Molecular Population Genomics in Houston, TX.

Platform Presentations

2017 Davenport ER, Spector TD, Ley RE, and Clark AG. *Co-occurrence network modeling reveals disease-specific configurations of microbiome community structure across 2,500 twins*. American Society of Human Genetics Annual Meeting (ASHG) in Orlando, FL.

2017 Davenport ER, Spector TD, Ley RE, and Clark AG. *Modeling human gut microbiome community structure across healthy and diseased states in 2,500 twins*. Society of Molecular Biology and Evolution Annual Meeting (SMBE) in Austin, TX.

2017 Davenport ER, Spector TD, Ley RE, and Clark AG. *Modeling human gut microbiome community structure across healthy and diseased states in 2,500 twins*. Biology of Genomes (BoG) in Cold Spring Harbor, NY.

2012 Davenport ER, Mizrahi-Man O, Barreiro LB, Ober C, and Gilad Y. *Examining the roles of diet, age, and sex on the composition of the human fecal microbiome*. University of Chicago Molecular Biosciences Cluster Retreat in Galena, IL.

Poster presentations

2015 Davenport ER, Goodrich JK, Bell JT, Spector TD, Ley RE, and Clark AG. *ABO antigen and secretor status are not associated with gut microbiota composition*. American Society of Human Genetics Annual Meeting (ASHG) in Baltimore, MD.

2014 Davenport ER, Mizrahi-Man O, Michelini K, Barreiro LB, Ober C, and Gilad Y. *poopQTLs: Genome-wide associations of the human gut microbiota*. Society for Molecular Biology and Evolution Annual Meeting (SMBE) in San Juan, PR.

2013 Davenport ER, Mizrahi-Man O, Michelini K, Barreiro LB, Ober C, and Gilad Y. *Temporal variation in human gut microbiome composition in the Hutterites*. American Society of Human Genetics Annual Meeting (ASHG) in Boston, MA.

2013 Davenport ER, Mizrahi-Man O, Michelini K, Barreiro LB, Ober C, and Gilad Y. *Examining the temporal stability of the fecal microbiome in an isolated, founder population*. Cell Symposium: the Microbiome and Host Health in Lisbon, Portugal.

2012 Davenport ER, Mizrahi-Man O, Barreiro LB, Ober C, and Gilad Y. *Examining the roles of diet, age, and sex on the composition of the human fecal microbiome*. American Society of Human Genetics Annual Meeting (ASHG) in San Francisco, CA.

2012 Davenport ER, Mizrahi-Man O, Barreiro LB, Ober C, and Gilad Y. *Examining the genetic basis of interindividual variation in the human fecal microbiome*. International Human Microbiome Conference in Paris, France.

2011 Yao T, Davenport ER, Poroyko V, Liu D, Lemanske R, Gern J, Ober C, Jackson D, Gilad Y, Pinto J. *The nasal microbiome and development of asthma in a birth cohort*. Biology of Genomes (BoG) in Cold Spring Harbor, NY.

Invited Seminars

2021 UGA Interdepartmental Health Disparities Working Group, University of Georgia

Department of Biology, Trinity University

Department of Human Genetics, University of Chicago

Department of Cellular and Molecular Medicine, University of Arizona

Gut Interest Group, Penn State University College of Medicine

2020 Department of Public Health Sciences, Penn State College of Medicine

Department of Biology, Vanderbilt University [cancelled because of COVID-19]

Department of Human Genetics, UCLA [cancelled because of COVID-19]

Department of Human Genetics, University of Chicago [cancelled because of COVID-19]

2019 Penn State Microbiome Center Exchange, Penn State College of Medicine

Department of Biology, Duke University

Department of Nutrition, Pennsylvania State University

Department of Biology, University of New Mexico

Department of Biology, Marquette University

Department of Biology, Auburn University

Department of Biology, Pennsylvania State University

2018 Max Planck Institute for Developmental Biology

Department of Biology, Bucknell University

Department of Biology, Barnard College

Department of Biology, Smith College

2017 Department of Biology, Wake Forest University

2016 The Huck Institutes of the Life Sciences, Pennsylvania State University

2013 Department of Biology, Chicago State University

2013 Emory University and Yerkes National Primate Research Center

Teaching Experience

University Courses – Instructor of Record

2020 – Penn State University, Department of Biology, *BIOL439: Practical Bioinformatics* (~25 students)

2020 – Penn State University, Department of Biology, *PSU16: First Year Seminar* (~30 students)

Teaching Assistantships

2014 University of Chicago, Biological Sciences Division: *HGEN 47300: Genomics and Systems Biology* (Taught 6 lectures)

2011 University of Chicago, Biological Sciences Division: *HGEN 47000: Human Genetics I*

2011 University of Chicago, Biological Sciences Division: *HGEN 47300: Genomics and Systems Biology*

2010 University of Chicago, Biological Sciences Division: *MGCB 31400: Genetic Analysis of Model Organisms*

Guest Lectures

2020 Penn State University, Anthropology *ANTH497: Microbial Insights into Anthropology – “Microbiome studies in the Hutterites”*

2016 Cornell University, Molecular Biology and Genetics: *BIOMG 4870: Human Genomics – “Cystic Fibrosis and PKU*”

2016 Cornell University, Biological Sciences: *BIOMI 3210: Human Microbes and Health – “Microbiome studies in the Hutterites”*

2016 Pennsylvania State University, Biochemistry and Molecular Biology: *BMB 484: Functional Genomics – “Introduction to Population Genetics”*

2015 Cornell University, Molecular Biology and Genetics: *BIOMG 4870: Human Genomics – “Linkage disequilibrium mapping, or Genome-wide Association Studies (GWAS)”*

2011 University of Chicago, Biological Sciences Division: *HGEN 47000: Human Genetics I – “Human genome structure and variation”*

Workshops

2021 **Instructor** – “Git and GitHub”, Penn State, Huck Institutes of the Life Sciences, Microbiome Center

2020 **Instructor** – “*Microbiome Center Kick-Start Workshop*”, Penn State, Huck Institutes of the Life Sciences, Microbiome Center

2019 Instructor – “*Introduction to Statistics with R*”, Max Planck Institute for Developmental Biology; Tübingen, Germany

2016 Instructor – “*Learn about Git and Github*”, Cornell University, CPGSA

2016Instructor– *“Introduction to R”,* University of Chicago, Biological Sciences Division

Software Carpentry Workshops [content I taught]

2017 Lead Instructor, TGen, Phoenix, AZ (June) [R and version control with Git]

2016 Instructor, University of Chicago, Biological Sciences Division (September) [review of shell and R, writing reproducible reports, and version control with Git]

2016 Lead Instructor, Cornell University, Department of Molecular Biology and Genetics (August) [version control with Git]

2015 Instructor, University of Chicago, Biological Sciences Division (September) [review of shell and R, writing reproducible reports, and version control with Git]

2015 Instructor, Pennsylvania State University (June) [shell and version control with Git]

2014 Instructor, University of Chicago, Biological Sciences Division (September) [version control with Git]

2014 Lead Instructor, University of Toronto (July) [version control with Git]

2013 Instructor, University of Chicago, Biological Sciences Division (September) [shell]

2013 Instructor, University of Chicago. (June) [shell]

Data Carpentry Workshops [content I taught]

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2016 Instructor, Cornell University (June) [reproducible reports with Rmarkdown and R programming]

2015 Instructor, Cornell University (January) [automating repetitive tasks with command line shell

Mentorship and Advising

Undergraduate Student Advising (Primary Advisor)

Years Name Institution Program

2021 – Kyrah Williams PSU Biology, Millennium Scholar

2021 – Jovial Joseph PSU Accelerated Premedical-Medical Program

2021 – Yiyan Zhang PSU Statistics – Biostats, Math – Systems Analysis

2021 – Sean O’Rourke PSU Biology – Neuroscience

2018 Adon Chowdhury Cornell Biometry and Statistics

2017 – 2018 Trang Dau Cornell Human Biology, Health, & Society

2015 – 2017 Monica Guardado PSU Biology

*---> Awarded an American Society of Microbiology (ASM) Research Capstone Fellowship (2017)*

Rotation Advisor

Year Program Name(s)

2020 Bioinformatics and Genomics Kyle McGovern

2019 Biology Erica Ryu

Graduate Student Advising (Primary Advisor)

Years Name Institution Program

2020 – Erica Ryu PSU Biology

*---> Awarded an NSF GRFP Honorable Mention (2021)*

Postdoc and Scientist Advising (Primary Advisor)

Years Name Type Institution Program

2020 – Nur Shahir Postdoc Penn State Biology

2020 – Robert Nichols Postdoc Penn State Biology

*---> Awarded a USDA NIFA Postdoctoral Fellowship (2020)*

2016 – 2017 Xiaoling Gong Scientist Cornell Molecular Bio and Genetics

Dissertation Committee Member

Defended Deg. Name University Department/Program

In progress Ph.D. Miranda DePriest Penn State Plant Path. and Env. Micro.

In progress M.S. Nellie Heitzman Bucknell University Biology

In progress Ph.D. Shreya Ramachandran University of Chicago Human Genetics

In progress Ph.D. Scott Eckert Penn State Bioinfo. and Genomics

In progress Ph.D. Jeremy Sutherland Penn State Bioinfo. and Genomics

In progress Ph.D. Julia Stewart Penn State Biology

In progress Ph.D. Sterling Wright Penn State Anthropology

In progress Ph.D. Lixiang Zhang Penn State Statistics

In progress MPS Veronica Cappas Penn State Forensic Science

Qualifying Exam Committee Member

Year Program Students

2021 Bioinformatics and Genomics Corrine Smolen

2020 Bioinformatics and Genomics Jeremy Sutherland, Shaopeng Liu

Academic Honors and Funding

2017 Genetics Society of America (GSA) DeLill Nasser Travel Award for Professional Development in Genetics ($1000)

2016 - 2019 NIH Ruth L. Kirschstein National Research Service Award (NRSA) – F32DK109595 ($173,079)

2014 University of Chicago Biological Sciences Division Travel Award ($500)

2011 University of Chicago Digestive Diseases Research Core Center (DDRCC) Pilot and Feasibility award ($20,000, written by E.R. Davenport to support dissertation research, submitted by Y. Gilad)

2010 - 2012 NIH Genetics and Regulation Training Grant (University of Chicago – 2 years of stipend support and tuition)

2007 Graduated with comprehensive honors: honors in Bacteriology and the liberal arts (University of Wisconsin – Madison)

2004 Dean’s List (University of Wisconsin – Madison)

2003 William F. Vilas Scholarship (University of Wisconsin – Madison)

Professional Development

2021 **Safer People Safer Places Transgender and Gender Inclusion 101** – Penn State University

2020 **Becoming an Active Witness who Hears, Sees, Feels, and Does** active bystander training – Penn State University

2019 **Mentoring Matters Workshop** – Eberly College of Science, Penn State University

2017 – 2018 Cornell Center for Teaching Excellence GET SET teaching and learning workshops completed:

- An Integrated Course Design Approach to Planning Your Class

- Tips on Writing a Strong Teaching Philosophy Statement

- Integrating Technology into Your Classroom

- Developing Service-Learning in the Disciplines

- Flipping the Classroom as a TA

- Using Your Research Experience to Improve Your Teaching

- Holding Effective Office Hours

- Teaching and Mentoring Across Differences

- Leading a Discussion in an Online Classroom

2017 Assessing Learning and Teaching certificate – Cornell University Center for Teaching Innovation. Workshops included:

- Designing Learning Outcomes for Your Course

- Utilizing Classroom Assessment Techniques to Evaluate Student Learning

- Developing Rubrics for Effective Grading

2017 Creating an Engaging Classroom certificate – Cornell University Center for Teaching Innovation

- Building a Collaborative Learning Environment

- Using Theater Techniques to Enhance Your Teaching

- Engaging Students in Quantitative Courses

2016 The Practice of Inclusive Teaching in STEM certificate – Cornell University Center for Teaching Excellence

2016 Building Mentoring Skills for an Academic Career certificate program – Cornell University Center for the Integration of Teaching and Learning (CU-CIRTL)

2015 - 2016 Postdoc Leadership Certificate Program – Cornell University

2014 Certificate in University Teaching – University of Chicago Center for Teaching and Learning

2013 Software Carpentry Instructor training – Software Carpentry

Professional Affiliations

2019 - Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)

2017 - Genetics Society of America (GSA)

2014 - Society for Molecular Biology and Evolution (SMBE)

2012 - American Society of Human Genetics (ASHG)

2017 American Society for Microbiology (ASM)

2017 American Association of Physical Anthropologists (AAPA)

2016 – 2019 National Postdoc Association (NPA)

2011 – 2018 American Association for the Advancement of Science (AAAS)

Outreach

**Advocate** (2021) American Society of Human Genetics Hill Day advocate

**Interview** (2020) Eberly College of Science “Hey! I Got a Question About That” podcast on the

microbiome: https://www.youtube.com/watch?v=960zTLUD7VU&t=881s

**Advocate** (2019) Rally for Medical Research Hill Day advocate, representing American Society of

Human Genetics

**Reviewer** (2015 - ) American Society of Human Genetics (ASHG) DNA Day Essay Judge

Member (2015 - 2018) Genetics Education and Outreach Network (GEON)

Leadership and Service

Departmental

2020 - **Member** - Biology Seminar Series Organizing Committee, Department of Biology,

PSU

2020 - **Member** - Biology Graduate Admissions Committee, Department of Biology, PSU

2010 - 2013 **Representative** - Molecular Biosciences organizational committee: student

Representative from the Department of Human Genetics on orientation week,

annual molecular biosciences retreat, and recruitment organizing committees,

Department of Human Genetics, University of Chicago

Institutional

2021 **Invited Panelist** - “First Years as Faculty in STEM” GRADUCon, University of Chicago

2020 **Grant reviewer** - Penn State and University at Buffalo Clinical and Translational Science

Pilot Award Program

2018 **Member** - Consensual Relationships Policy Committee – Postdoc representative,

Cornell University. See http://theuniversityfaculty.cornell.edu/news/consensual-

relationships-policy-committee/ for details.

2017 – 2018 **Cofounder & Organizer** - Postdoc Fellow Invited Lecture in Research and Career

Development series. Department of Molecular Biology, Cornell University

2016 – 2018 Member - Cornell University Postdoctoral Advisory Council

2016 – 2017 Reviewer - Sigma Xi Grants-In-Aid of Research, Cornell University

National

2015 – Reviewer -

Annals of Applied Statistics

American Journal of Primatology

Applied and Environmental Microbiology (AEM)

BMC Genomics

Cell

Cell Host & Microbe

Cell Reports

Communications Biology

Critical Reviews in

Microbiology

Diabetologia

eLife

Environmental Microbiology

Genes

Genome Biology

Genomics, Proteomics, and Bioinformatics

Gut Microbes

Journal of Allergy and Clinical Immunology (JACI)

Journal of Evolutionary Biology

Microbial Ecology

Microbiome

Microorganisms

mSystems

Nature Communications

Nature Microbiology

npj Biofilms and Microbiomes

PLoS Genetics

PLoS ONE

PNAS

Science

Scientific Reports

Thorax

Trends in Genetics

Trends in Immunology

2020 – Co-chair - American Society of Human Genetics (ASHG) Career Development

Committee (CDC)

2019 – Abstract Reviewer - SACNAS research presentation abstracts (Life Sciences)

2019 – Abstract Reviewer - SACNAS Travel Scholarships (Life Sciences)

2019 – Board Member - Cards Against Humanity Science Ambassador Scholarship Program

2018 – Member - Federation of American Societies for Experimental Biology (FASEB)

Training & Career Opportunities Subcommittee

2020 – 2021 Grant Reviewer - National Science Foundation (NSF)

2018, 2020 Grant Reviewer - Wellcome Trust Investigator Award in Science

2020 Moderator - The Allied Genetics Conference (TAGC) platform session: Disease Models

and Aging (Mammal) \*TAGC 2020 was held virtually due to COVID-19

2019 Incoming Chair - American Society of Human Genetics (ASHG) Training and

Development Committee

2019 Moderator - American Society of Human Genetics (ASHG) Annual Meeting platform

session: Gene Expression Variation Across Diverse Global Populations

2019 Abstract Reviewer - ASHG Annual Meeting abstracts (Bioinformatics and

Computational Approaches)

2017 – 2019 Member - American Society of Human Genetics (ASHG) Training and Development

(TDC) Committee

2017 Moderator - Academic Career Panel at the American Society of Human Genetics

Annual Meeting (ASHG)

2011, 2012, 2014 Judge - Annual Chicago Public Schools Student Science fair

2011 - 2014 Judge - Annual Chicago Area Undergraduate Research Symposium (CAURS)