

# Emily R. Davenport

Assistant Professor – Pennsylvania State University

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## 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

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## 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.

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## Publications – peer reviewed

\* denotes equal contribution

Underlined denotes mentee author

### Submitted

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*.
18. Marderstein AR, **Davenport ER**, Kulm S, Van Hout C, Elemento O, Clark AG. *Leveraging phenotypic variability to identify genetic interactions in human phenotypes*.
17. 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, Alkhodari A, Liu C, San Y, Alver M, Metspalu A, Levin D, Mordt I, Lang C, Palmer C, Glinge C, Engström 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*.

### 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 Saavedra M, José Arredondo M, Strobe 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 (pub 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)

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## Publications – non-peer reviewed

2. **Davenport ER**. *Genetic variation shapes murine gut microbiota via immunity*. Trends in Immunology (in press)
1. **Davenport ER**. *Tooth be told, genetics influence oral microbiome*. Cell Host & Microbe. 2017;22(3)

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## 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

- 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
2018	Max Planck Institute for Developmental Biology
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

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## Teaching Experience

### University Courses – Instructor of Record

2020 –	Penn State University, Department of Biology, <i>BIOL439: Practical Bioinformatics</i>
2020 –	Penn State University, Department of Biology, <i>PSU16: First Year Seminar</i>

### Teaching Assistantships

2014	University of Chicago, Biological Sciences Division: <i>HGEN 47300: Genomics and Systems Biology</i> (Taught 6 lectures)
2011	University of Chicago, Biological Sciences Division: <i>HGEN 47000: Human Genetics I</i>
2011	University of Chicago, Biological Sciences Division: <i>HGEN 47300: Genomics and Systems Biology</i>
2010	University of Chicago, Biological Sciences Division: <i>MGCB 31400: Genetic Analysis of Model Organisms</i>

### Guest Lectures

2020	Penn State University, Anthropology <i>ANTH497: Microbial Insights into Anthropology – “Microbiome studies in the Hutterites”</i>
2016	Cornell University, Molecular Biology and Genetics: <i>BIOMG 4870: Human Genomics – “Cystic Fibrosis and PKU”</i>
2016	Cornell University, Biological Sciences: <i>BIOMI 3210: Human Microbes and Health – “Microbiome studies in the Hutterites”</i>
2016	Pennsylvania State University, Biochemistry and Molecular Biology: <i>BMB 484: Functional Genomics – “Introduction to Population Genetics”</i>
2015	Cornell University, Molecular Biology and Genetics: <i>BIOMG 4870: Human Genomics – “Linkage disequilibrium mapping, or Genome-wide Association Studies (GWAS)”</i>

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

## Workshops

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

2016 **Instructor** – “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]

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

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

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## Mentorship and Advising

### Student and Postdoc Advising (Primary Advisor)

Years	Name	Type	Institution	Program
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2020 –	Nur Shahir	Postdoc	Penn State	Biology
2020 –	Erica Ryu	Ph.D.	Penn State	Biology
2020 –	Robert Nichols	Postdoc	Penn State	Biology
2018	Adon Chowdhury	Undergrad	Cornell	Biometry and Statistics
2017 – 2018	Trang Dau	Undergrad	Cornell	Human Bio, Health, & Society
2016 – 2017	Xiaoling Gong	Scientist	Cornell	Molecular Bio and Genetics
2015 – 2017	Monica Guardado <sup>1</sup>	Undergrad	Penn State	Biology

Notes:

<sup>1</sup>Awarded an American Society of Microbiology (ASM) Research Capstone Fellowship in 2017

## 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	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

## Qualifying Exam Committee Member

Year	Program	Students
2020	Bioinformatics and Genomics	Jeremy Sutherland, Shaopeng Liu

## Rotation Advisor

Year	Program	Name(s)
2020	Bioinfo. & Genomics	Kyle McGovern
2019	Biology	Erica Ryu

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## 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)

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## Professional Development

2020	<b>Becoming an Active Witness who Hears, Sees, Feels, and Does</b> active bystander training – Penn State University
2019	<b>Mentoring Matters Workshop</b> – Eberly College of Science, Penn State University
2017 – 2018	<b>Cornell Center for Teaching Excellence GET SET teaching and learning workshops completed:</b> <ul style="list-style-type: none"> <li>- An Integrated Course Design Approach to Planning Your Class</li> <li>- Tips on Writing a Strong Teaching Philosophy Statement</li> <li>- Integrating Technology into Your Classroom</li> <li>- Developing Service-Learning in the Disciplines</li> <li>- Flipping the Classroom as a TA</li> <li>- Using Your Research Experience to Improve Your Teaching</li> <li>- Holding Effective Office Hours</li> <li>- Teaching and Mentoring Across Differences</li> <li>- Leading a Discussion in an Online Classroom</li> </ul>
2017	<b>Assessing Learning and Teaching certificate</b> – Cornell University Center for Teaching Innovation. Workshops included: <ul style="list-style-type: none"> <li>- Designing Learning Outcomes for Your Course</li> <li>- Utilizing Classroom Assessment Techniques to Evaluate Student Learning</li> <li>- Developing Rubrics for Effective Grading</li> </ul>
2017	<b>Creating an Engaging Classroom certificate</b> – Cornell University Center for Teaching Innovation <ul style="list-style-type: none"> <li>- Building a Collaborative Learning Environment</li> <li>- Using Theater Techniques to Enhance Your Teaching</li> <li>- Engaging Students in Quantitative Courses</li> </ul>

2016	<b>The Practice of Inclusive Teaching in STEM certificate</b> – Cornell University Center for Teaching Excellence
2016	<b>Building Mentoring Skills for an Academic Career certificate program</b> – Cornell University Center for the Integration of Teaching and Learning (CU-CIRTL)
2015 - 2016	<b>Postdoc Leadership Certificate Program</b> – Cornell University
2014	<b>Certificate in University Teaching</b> – University of Chicago Center for Teaching and Learning
2013	<b>Software Carpentry Instructor training</b> – Software Carpentry

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## 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)

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## Outreach

<b>Interview</b>	(2020) Eberly College of Science “Hey! I Got a Question About That” podcast on the microbiome: <a href="https://www.youtube.com/watch?v=960zTLUD7VU&amp;t=881s">https://www.youtube.com/watch?v=960zTLUD7VU&amp;t=881s</a>
<b>Advocate</b>	(2019) Rally for Medical Research Hill Day advocate, representing American Society of Human Genetics
<b>Reviewer</b>	(2015 - ) American Society of Human Genetics (ASHG) DNA Day Essay Judge
<b>Member</b>	(2015 - 2018) Genetics Education and Outreach Network (GEON)

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## Leadership and Service

<b>Reviewer</b>	American Journal of Primatology	Applied and Environmental Microbiology (AEM)	Cell
		BMC Genomics	Cell Host & Microbe
			Communications Biology

Diabetologia	Journal of Allergy and Clinical Immunology (JACI)	PLoS Genetics
eLife		PLoS ONE
Environmental Microbiology	Microbial Ecology	PNAS
Genes	Microbiome	Science
Genome Biology	Microorganisms	Scientific Reports
Genomics, Proteomics, and Bioinformatics	mSystems	Thorax
Gut Microbes	Nature Communications	Trends in Genetics
	Nature Microbiology	Trends in Immunology
	npj Biofilms and Microbiomes	

<b>Grant Reviewer</b>	(2020) Penn State and University at Buffalo Clinical and Translational Science Pilot Award Program (2020) National Science Foundation (NSF) (2020, 2018) Wellcome Trust Investigator Award in Science
<b>Moderator</b>	(2020) The Allied Genetics Conference (TAGC) platform session: Disease Models and Aging (Mammal) *TAGC 2020 was held virtually due to COVID-19 (2019) American Society of Human Genetics (ASHG) Annual Meeting platform session: Gene Expression Variation Across Diverse Global Populations (2017) Academic Career Panel at the American Society of Human Genetics Annual Meeting (ASHG)
<b>Abstract Reviewer</b>	(2019) ASHG Annual Meeting abstracts (Bioinformatics and Computational Approaches) (2019 - ) SACNAS research presentation abstracts (Life Sciences) (2019 - ) SACNAS Travel Scholarships (Life Sciences)
<b>Co-chair</b>	(2020 - ) American Society of Human Genetics (ASHG) Career Development Committee (CDC)
<b>Incoming Chair</b>	(2019) American Society of Human Genetics (ASHG) Training and Development Committee
<b>Member</b>	(2017 - 2019) American Society of Human Genetics (ASHG) Training and Development (TDC) Committee
<b>Board Member</b>	(2019 - ) Cards Against Humanity Science Ambassador Scholarship Program
<b>Member</b>	(2018 - ) Federation of American Societies for Experimental Biology (FASEB) Training & Career Opportunities Subcommittee
<b>Member</b>	(2018) Consensual Relationships Policy Committee – Postdoc representative, Cornell University. See <a href="http://theuniversityfaculty.cornell.edu/news/consensual-relationships-policy-committee/">http://theuniversityfaculty.cornell.edu/news/consensual-relationships-policy-committee/</a> for details.

<b>Cofounder &amp; Organizer</b>	(2017 - 2018) Postdoc Fellow Invited Lecture in Research and Career Development series. Department of Molecular Biology, Cornell University
<b>Member</b>	(2016 - 2018) Cornell University Postdoctoral Advisory Council
<b>Reviewer</b>	(2016 - 2017) Sigma Xi Grants-In-Aid of Research, Cornell University
<b>Judge</b>	(2011, 2012, 2014) Annual Chicago Public Schools Student Science fair
<b>Judge</b>	(2011 - 2014) Annual Chicago Area Undergraduate Research Symposium (CAURS)
<b>Member</b>	(2010 - 2013) Molecular Biosciences organizational committee: student representative from the Department of Human Genetics on orientation week, annual molecular biosciences retreat, and recruitment organizing committees