

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

Date: 01/05/2021

Blanca E. Himes, Ph.D.

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If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
none (U.S. citizen)

Education:

2001	BS	University of California, San Diego (UCSD) (Physics with Specialization in Computational Physics)
2007	PhD	Massachusetts Institute of Technology (MIT) (Medical Physics and Bioinformatics)

Postgraduate Training and Fellowship Appointments:

2007-2010	Research Fellow in Biomedical Informatics, Harvard Medical School
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Faculty Appointments:

2010-2013	Instructor in Medicine, Harvard Medical School, Boston, MA
2013-2014	Assistant Professor in Medicine, Harvard Medical School, Boston, MA
2014-2020	Assistant Professor of Informatics in Biostatistics and Epidemiology, University of Pennsylvania School of Medicine
2020-present	Associate Professor of Informatics in Biostatistics and Epidemiology, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

2010-2014	Associate Bioinformaticist, Brigham and Women's Hospital, Boston, MA
2012-2014	Associate Scientific Researcher, Boston Children's Hospital, Boston, MA

Other Appointments:

2008-2010	Programmer/Analyst, Harvard Medical School and Harvard Pilgrim Health Care, Inc., Boston, MA
2011-2014	Bioinformaticist, Partners HealthCare Personalized Medicine, Boston, MA
2014-present	Senior Scholar, Center for Clinical Epidemiology and Biostatistics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
2014-present	Member, Graduate Group in Epidemiology and Biostatistics,

	Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
2014-present	Member, Graduate Group in Genomics and Computational Biology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
2014-present	Senior Fellow, Institute for Biomedical Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
2015-present	CEET Investigator, Center of Excellence in Environmental Toxicology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

Awards, Honors and Membership in Honorary Societies:

2000	Ronald E. McNair Scholar, UCSD
2000	Phi Beta Kappa, UCSD
2001	Presidential Fellowship, MIT
2001	Shang-keng Ma Memorial Award, Presented at commencement to a physics student who has shown exceptional ability and promise, UCSD
2001	summa cum laude, UCSD
2001	Department Honors in Physics with Highest Distinction, UCSD
2006	Martinos Scholar Fellowship, Harvard-MIT Division of Health Sciences and Technology, MIT
2007	Student Leadership Award, Harvard-MIT Division of Health Sciences and Technology, MIT
2013	Faculty Career Development Award, Brigham and Women's Hospital
2014	Provost Office Faculty Opportunity Fund Award, University of Pennsylvania
2015	Thomas B McCabe and Jeannette E Laws McCabe Fund Pilot Award, University of Pennsylvania
2015	Center of Excellence for Diversity in Health Education and Research Minority Faculty Scholar Award, University of Pennsylvania
2020	American Thoracic Society Fellow (ATSF)

Memberships in Professional and Scientific Societies and Other Professional Activities:

National:

2007-Present	American Society of Human Genetics (ASHG)
2009-Present	American Thoracic Society (ATS) (Section on Genetics and Genomics Nominating Committee Member 2014-2015 Assembly on Allergy, Immunology and Inflammation Early Career Professionals Working Group 2015-2017 Section on Genetics and Genomics Co-Chair 2016-2017)

Section on Genetics and Genomics Chair 2017-2018
 Section on Genetics and Genomics Nominating Committee Chair 2018-2019
 Assembly on Allergy, Immunology and Inflammation Programming Committee
 Member 2018-current
 Assembly on Allergy, Immunology and Inflammation Programming Committee
 Chair-Elect 2019-current)

- 2014-Present American Medical Informatics Association (AMIA)
- 2015-2020 National Institutes of Health, Biomedical Computing and Health Informatics (BCHI)
 Study Section (Ad hoc member October 2015
 Ad hoc member June 2017
 Ad hoc member June 2018
 Standing member July 2018-December 2020)
- 2016-2017 National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)
 Mentored Patient Oriented Research (MPOR) Review Group (Ad hoc member
 October 2016
 Ad hoc member October 2017)
- 2016-Present Society for the Advancement of Chicanos/Hispanics and Native Americans in
 Science (SACNAS)
- 2017 National Institutes of Health, National Institute of Diabetes and Digestive and Kidney
 Diseases (NIDDK) Special Emphasis Panel, High Impact and Interdisciplinary
 Science (RC2) Review Group (Member March 2017)
- 2018 National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI)
 Special Emphasis Panel, PAR-16-021, NHLBI TOPMed: Omics Phenotypes of Heart,
 Lung and Blood Disorders (X01) (Member April 2018)
- 2018 National Institutes of Health, National Heart, Lung, and Blood Institute (NHLBI);
 Heart, Lung, and Blood Program Project Review Committee; Heart, Lung, and Blood
 Initial Review Group (Ad hoc member January 2018)
- 2020-Present National Institutes of Health, Clinical Data Management and Analysis (CDMA)
 Study Section (Standing Member December 2020-Present)
- Local:
- 2017 Harvard Chan-NIEHS Center for Environmental Health (Pilot project grant reviewer
 Fall 2017)
- 2018-Present University of Pennsylvania, Center of Excellence in Environmental Toxicology
 (CEET) (Pilot project grant reviewer)

Editorial Positions:

2010-Present	Ad hoc reviewer, BMC Medical Genetics
2010-Present	Ad hoc reviewer, European Respiratory Journal
2010-Present	Ad hoc reviewer, Respiration
2011-Present	Ad hoc reviewer, Proceedings of the American Thoracic Society
2011-Present	Ad hoc reviewer, BMC Medical Informatics and Decision Making
2011-Present	Ad hoc reviewer, Bioinformatics
2012-Present	Ad hoc reviewer, BMC Bioinformatics
2012-Present	Ad hoc reviewer, Pharmacogenetics and Genomics
2013-Present	Ad hoc reviewer, PLOS ONE
2014-Present	Ad hoc reviewer, Journal of Allergy and Clinical Immunology
2014-Present	Ad hoc reviewer, The Pharmacogenomics Journal
2014-Present	Ad hoc reviewer, Chest
2014-Present	Ad hoc reviewer, BMC Research Notes
2014-Present	Ad hoc reviewer, American Journal of Respiratory Cell and Molecular Biology
2014-Present	Ad hoc reviewer, Advances in Genomics and Genetics
2014-Present	Ad hoc reviewer, Respiratory Research
2015-Present	Ad hoc reviewer, BMC Pediatrics
2015-Present	Ad hoc reviewer, BMC Pulmonary Medicine
2015-Present	Ad hoc reviewer, Asthma Research and Practice
2015-Present	Ad hoc reviewer, American Journal of Respiratory and Critical Care Medicine
2016-Present	Ad hoc reviewer, BMC Genetics
2016-Present	Ad hoc reviewer, Journal of Racial and Ethnic Health Disparities
2016-Present	Ad hoc reviewer, Human Heredity
2016-Present	Ad hoc reviewer, New England Journal of Medicine
2017-Present	Ad hoc reviewer, Genetic Epidemiology
2017-Present	Ad hoc reviewer, American Journal of Human Genetics
2017-Present	Ad hoc reviewer, Health Affairs
2017-Present	Ad hoc reviewer, Nature Communications
2020-Present	Ad hoc reviewer, Thorax

Academic and Institutional Committees:

2006-2010	Harvard-MIT Division of Health Sciences and Technology Ph.D. Admissions Committee, MIT
2008-2014	Harvard-MIT Division of Health Sciences and Technology Forum Award Committee, Harvard Medical School
2011-2014	Technology and Communication Subcommittee Co-Chair, Joint Committee on the Status of Women, Harvard Medical School
2014-2019	Member, Genomics and Computational Biology Graduate Group Student Admissions Committee, Perelman School of Medicine, University of Pennsylvania
2015-Present	Member, Epidemiology Faculty Recruitment Committee, Department of Biostatistics, Epidemiology and Informatics, Perelman School of Medicine, University of Pennsylvania

2015-Present	Member, Institute for Biomedical Informatics Faculty Search Committee, Perelman School of Medicine, University of Pennsylvania
2015-2016	Member, Graduate Group in Epidemiology and Biostatistics (GGEB) Student Admissions Committee, Perelman School of Medicine, University of Pennsylvania Epidemiology Ph.D.
2015-2017	Member, Joint Genetics / Institute for Biomedical Informatics Faculty Search Committee, Perelman School of Medicine, University of Pennsylvania
2015-2018	Member, Department of Biostatistics, Epidemiology and Informatics, Genetic Epidemiology Faculty Recruitment Committee, Perelman School of Medicine, University of Pennsylvania
2015-2016	Member, Nominating Committee, Faculty Senate, University of Pennsylvania
2016-2018	Member, Department of Biostatistics, Epidemiology and Informatics, Injury Epidemiology Faculty Recruitment Committee, Perelman School of Medicine, University of Pennsylvania
2016-2020	Member, Certificate Program in Biomedical Informatics Executive Committee, University of Pennsylvania
2016-2017	Member, Next-Generation High Performance Computing Workgroup, Perelman School of Medicine, University of Pennsylvania
2016-Present	Faculty Advisory Committee Member, Graduate Student SACNAS Chapter, Perelman School of Medicine, University of Pennsylvania
2016-2020	Member, Graduate Group in Epidemiology and Biostatistics Award Committee, Perelman School of Medicine, University of Pennsylvania
2016-Present	Chair, Epidemiology Ph.D. Admissions Committee, Graduate Group in Epidemiology and Biostatistics (GGEB), Perelman School of Medicine, University of Pennsylvania
2017	Member, Leveraging Health Data Committee/Strategic Planning Effort, University of Pennsylvania
2017	Member, Faculty Advisory Committee for On-site Child Care, University of Pennsylvania
2017-2019	Member, IBI Educational Programs Advisory Committee, University of Pennsylvania
2017-2020	Member, Senate Committee on Economic Status of the Faculty (SCESF), Faculty Senate, University of Pennsylvania
2018-Present	Member, Graduate Group in Epidemiology and Biostatistics (GGEB) Executive Committee, Perelman School of Medicine, University of Pennsylvania
2018-2020	Member, Informatics Ph.D. Program Development Committee, Perelman School of Medicine, University of Pennsylvania
2019-Present	Internal Advisory Board Member, Center of Excellence in Environmental Toxicology (CEET), University of Pennsylvania

2019-Present	Member, Master of Biomedical Informatics Steering Committee
2019-Present	Chair, Master of Biomedical Informatics Admissions Committee
2020-Present	Member, Center for Clinical Epidemiology and Biostatistics (CCEB) Executive Committee, Perelman School of Medicine, University of Pennsylvania
2020-Present	Member, Committee on Appointments and Promotions (COAP), Department of Biostatistics, Epidemiology and Informatics, Perelman School of Medicine, University of Pennsylvania
2020-Present	Senior Faculty Advisor, Penn Interdisciplinary Network for Scientists Promoting Inclusion, Retention, and Equity (INSPIRE), Perelman School of Medicine, University of Pennsylvania

Major Academic and Clinical Teaching Responsibilities:

2000-2001	UCSD Modern Physics Laboratory (Physics 2DL) Teaching Assistant (144 hrs). Audience: science and engineering undergraduates.
2002	MIT Project Interphase Physics Instructor (67 hrs). Audience: MIT freshmen from disadvantaged backgrounds.
2006	MIT Introduction to Clinical Medicine (HST.201) Teaching Assistant (60 hrs). Audience: Medical Engineering/Medical Physics graduate students.
2007	Harvard Medical School Summer Scholars in Bioinformatics and Integrative Genomics. Daily mentorship of undergraduate student Amy Dai for 9 weeks.
2007	Harvard Medical School Summer Scholars in Bioinformatics and Integrative Genomics. Daily mentorship of undergraduate student Mark Ebbert for 9 weeks.
2010	Harvard Medical School Summer Scholars in Bioinformatics and Integrative Genomics. Daily mentorship of undergraduate student Diego Borges-Rivera for 9 weeks.
2010-2014	Mentor, Graduate Women @ MIT (GWAMIT) Mentoring Program
2011	Harvard Medical School Summer Scholars in Bioinformatics and Integrative Genomics. Daily mentorship of undergraduate student Bailey Fay for 9 weeks.
2012-2013	Harvard Medical School Introduction to Biomedical Informatics I (BMI701) Guest lecturer (9 hrs). Audience: Master of Medical Sciences in Biomedical Informatics graduate students.
2012	Harvard School of Public Health Interdisciplinary Training in Pulmonary Sciences (EH513) Guest lecturer (1 hr). Audience: HSPH graduate students.
2013	Harvard Medical School Summer Scholars in Bioinformatics and Integrative Genomics. Daily mentorship of undergraduate student Reid Whitaker for 9 weeks.
2013	Brigham and Women's Hospital Student Success Jobs Program.

- Daily mentorship of undergraduate student Raju Buchan for 10 weeks.
- 2013-2014 Mentor, Harvard Graduate Women In Science and Engineering Mentoring Program
- 2014 Harvard Medical School Introduction to Bioinformatics I: NGS - Data, Methods, Analysis and Implications (BMI714) Guest lecturer (6 hrs). Audience: Master of Medical Sciences in Biomedical Informatics graduate students.
- 2014 Brigham and Women's Hospital ABLE4STEM Program. Weekly mentorship of undergraduate student Sarah Auguste for 6 months.
- 2014 Brigham and Women's Hospital Student Success Jobs Program. Daily mentorship of undergraduate student Dougmawi Tewodrose for 10 weeks.
- 2014 Brigham and Women's Hospital Student Success Jobs Program. Daily mentorship of undergraduate student Roosendy Saint-Fort for 10 weeks.
- 2014-2015 University of Pennsylvania. Mentored undergraduate student Christopher Range as a research assistant (10-20 hrs/week).
- 2014-2015 University of Pennsylvania. Mentored Master of Public Health candidate student Jasmine Jones as a research assistant (10-20 hrs/week).
- 2014-2015 University of Pennsylvania. Mentored Master of Public Health candidate student Natasha Sastri as a research assistant (10-20 hours/week).
- 2014-2016 University of Pennsylvania. Mentored Master of Biotechnology student Jessica Levin as a research assistant (10-20 hours/week during school year; 40 hours/week during summer).
- 2015 University of Pennsylvania. Pulmonary, Allergy, & Critical Care Division. Pulmonary and Critical Care Special Lecture. April 29. "Using Genomic Techniques to Better Understand Asthma"
- 2015 University of Pennsylvania Leonard Davis Institute of Health Economics, Summer Undergraduate Minority Research Program (SUMR). Weekly mentorship of undergraduate student Omar Mansour for 10 weeks.
- 2015 University of Pennsylvania. Leonard Davis Institute of Health Economics, Summer Undergraduate Minority Research Program (SUMR). Weekly mentorship of undergraduate student Enrique Torres Hernandez for 10 weeks.
- 2015-Present University of Pennsylvania. Data Science for Biomedical Informatics (EPID600/BMIN503). Course Director (42 hours each year). Audience: UPenn students, postdocs, and faculty from various masters programs and graduate groups. Required course for Biomedical Informatics Certificate Program and Epidemiology Ph.D. students as of Fall 2017. Required course for Masters in Biomedical Informatics Masters students as of Fall 2019.

- 2015 University of Pennsylvania. Center of Excellence in Environmental Toxicology (CEET) Seminar Series. September 17. "Genetic Epidemiology of Asthma"
- 2015 University of Pennsylvania. Pulmonary, Allergy, & Critical Care and Allergy and Immunology Divisions Research Conference. December 9. "Measuring Transcriptomes with RNA-Seq"
- 2015-2017 Thesis committee member for Cheng Jia, Ph.D. Candidate in Biostatistics, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania
- 2015 Lab Rotation Supervisor for Todd Miano, Ph.D. Candidate in Epidemiology, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania
- 2015-2019 University of Pennsylvania. Mentored Rebecca Greenblatt as a research assistant (10-20 hours/week) while a Pre-Health Program student (2015-2017) and as medical student (2017-2019).
- 2015-2018 University of Pennsylvania. Mentored Maya Shumyatcher as a research assistant (40 hours/week) while a Pre-Health Program student.
- 2016 Hospital of the University of Pennsylvania (HUP). Allergy & Immunology Conference invited speaker. January 29. "Asthma Genetics"
- 2016 University of Pennsylvania. Biotechnology Master's Program Independent Study (BIOT599). Course Director (42 hours). Student: Rui Hong.
- 2016-2017 University of Pennsylvania. Mentored undergraduate student Laila Balkhi as a research assistant (10-20 hours/week during school year).
- 2016-2017 University of Pennsylvania. Mentored undergraduate student Edward Zhao as a research assistant (10-20 hours/week during school year).
- 2016-2020 University of Pennsylvania. Introduction to Genetic Epidemiology (EPID575). Guest Lecturer (3 hours each year). Audience: Penn students, primarily from epidemiology PhD program.
- 2016 University of Pennsylvania. Public Health Certificate Program (PHCP) Seminar Series. March 16. "Asthma as a Model Disease for Public Health Informatics"
- 2016-2017 Thesis committee member for Edwin Yoo, Ph.D. Candidate in Pharmacology, Pharmacology Graduate Group, University of Pennsylvania
- 2016 University of Pennsylvania. 11th Annual Center of Excellence in Environmental Toxicology (CEET) Symposium invited speaker. June 15. "Genomic and Environmental Approaches to Study Asthma"
- 2016-Present University of Pennsylvania. Ph.D. Thesis Supervisor for Sherrie Xie VMD/PhD Candidate in Epidemiology, Graduate Group in Epidemiology and Biostatistics.

- 2016 University of Pennsylvania Leonard Davis Institute of Health Economics, Summer Undergraduate Minority Research Program (SUMR). Weekly mentorship of undergraduate student Kareha Agesa for 10 weeks.
- 2016 University of Pennsylvania. Summer Undergraduate Minority Research (SUMR) Program orientation speaker. June 1. "Advice For a Successful Research Experience"
- 2016 University of Pennsylvania. Summer Undergraduate Internship Program (SUIP) seminar speaker. June 29. "Genomic and Environmental Approaches to Study Asthma"
- 2016 University of Pennsylvania. Doctoral Seminar: Epidemiology in a Changing World (EPID700). Guest Lecturer (3 hours). Audience: Penn students, primarily from epidemiology Ph.D. program.
- 2016-2017 Thesis committee member for Gary Weissman M.D., M.S. Candidate in Health Policy Research, University of Pennsylvania.
- 2016-Present University of Pennsylvania. M.S. in Clinical Epidemiology Thesis committee member (2016-2018) and Career Development Team Member for Tiffanie Jones M.D., Pulmonary, Allergy, and Critical Care Division.
- 2016-2017 University of Pennsylvania. Career Development Team Member for Tamas Dolinay M.D., Pulmonary, Allergy, and Critical Care Division
- 2017 University of Pennsylvania Pulmonary, Allergy, & Critical Care and Allergy and Immunology Divisions Research Conference invited speaker. March 15. "Measuring the Airway Smooth Muscle Transcriptome Response to Glucocorticoid Treatment with RNA-Seq."
- 2017 University of Pennsylvania. Applied Regression Analysis for Health Policy Research (HPR608). Guest Lecturer (1.5 hours each year). Audience: Penn students, primarily M.S. in Health Policy Research candidates.
- 2017 University of Pennsylvania. Leonard Davis Institute of Health Economics, Summer Undergraduate Minority Research Program (SUMR). Weekly mentorship of undergraduate student Nikhil Chopra for 10 weeks.
- 2017 University of Pennsylvania. Leonard Davis Institute of Health Economics, Summer Undergraduate Minority Research Program (SUMR). Weekly mentorship of undergraduate student Tamunobelebra Igoni for 10 weeks.
- 2017 University of Pennsylvania. Mentored Swarthmore College undergraduate student Lan Q.A. Ngo as a research assistant (40 hours/week during Summer).
- 2017 University of Pennsylvania. Summer Undergraduate Minority Research (SUMR) Program orientation speaker. June 5. "Overview of Biomedical Informatics"
- 2017-2020 University of Pennsylvania. Mentored undergraduate student Colin

- Christie for 10 weeks during Summer 2017 as part of Short Term Educational Experiences for Research (STEER) in Environmental Science Program. Mentored as a research assistant 10-20 hours/week during school year and 30-40 hours/week during Summer 2018 and Summer 2019. Mentored for PHYS499 during Fall 2019.
- 2017 University of Pennsylvania. 23rd Annual Respiration Research Retreat invited speaker. June 21. "Biomedical Informatics Approaches to Study Asthma"
- 2017-2018 Thesis committee member for Yu Hu, Ph.D. Candidate in Biostatistics, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania.
- 2017-2019 University of Pennsylvania. Introduction to Biomedical Informatics (BMIN501/EPID632). Guest Lecturer (3 hours each year). Audience: Penn students, primarily from Epidemiology PhD and Certificate in Biomedical Informatics programs.
- 2017-2018 University of Pennsylvania. Biology Independent Study. Course Director (BIOL399 42 hours Fall 2017; BIOL499 42 hours Spring 2018). Student: Gabriel Soliman.
- 2017-2018 University of Pennsylvania. Mentored Masters in Environmental Sciences student Kristina Victoreen as a research assistant 10-20 hours/week during school year.
- 2018 University of Pennsylvania. Data Science Student Group (DSSG) Bioengineering Talks invited speaker. March 16. "Data Science in Medicine."
- 2018 University of Pennsylvania. Mentored undergraduate student Madison Goldstein as a research assistant 10-20 hours/week during school year. Mentored for 10 weeks during Summer as part of the Penn Undergraduate Research Mentoring Program (PURM).
- 2018 University of Pennsylvania. Mentored Masters of Science in Bioengineering student Pradeepkumar Govindaswamy as a research assistant 10-20 hours/week.
- 2018 University of Pennsylvania. Mentored undergraduate student Alicia Jen for 10 weeks during Summer as part of the Penn Undergraduate Research Mentoring Program (PURM), and 10-20 hours/week during school year.
- 2018 University of Pennsylvania. Mentored undergraduate student Anna Mujica as a research assistant 20-40 hours/week during summer and 10-20 hours/week during school year.
- 2018 University of Pennsylvania. Mentored undergraduate student Gabriel Soliman as a research assistant 30-40 hours/week during summer and 10-20 hours/week during school year.
- 2018 University of Pennsylvania. Leonard Davis Institute of Health Economics, Summer Undergraduate Minority Research Program (SUMR). Weekly mentorship of undergraduate student Ayomide Ojebuoboh for 10 weeks.
- 2018 University of Pennsylvania. Mentored undergraduate student Sarai

- Morales for 10 weeks during Summer 2018 as part of Short Term Educational Experiences for Research (STEER) in Environmental Science Program.
- 2018 University of Pennsylvania. Mentored undergraduate student Akua Temeng for 10 weeks during Summer 2018 as part of Short Term Educational Experiences for Research (STEER) in Environmental Science Program.
- 2018 University of Pennsylvania. Institute for Biomedical Informatics. Informatics Day 2018 invited speaker. May 31. "Characterizing Asthma Exacerbations by Combining EHR Data with Extrinsic Socioeconomic and Environmental Factor Data"
- 2018 University of Pennsylvania. Summer Undergraduate Minority Research (SUMR) Program orientation speaker. June 7. "Overview of Biomedical Informatics."
- 2018 University of Pennsylvania. 13th Annual Center of Excellence in Environmental Toxicology (CEET) Symposium invited speaker. June 18. "Integrative Omics Strategies to Study Asthma."
- 2018-2019 University of Pennsylvania. Mentored undergraduate student Joslyn Jung as a research assistant 10-20 hours/week during school year.
- 2018-2019 University of Pennsylvania. Career Development Team Member for Michael Bonk M.D., Pulmonary, Allergy, and Critical Care Division.
- 2018-Present University of Pennsylvania. Career Development Team Member for Cheilonda Johnson M.D., Pulmonary, Allergy, and Critical Care Division.
- 2018 University of Pennsylvania. Biotechnology Master's Program Independent Study (BIOT599). Course Director (42 hours). Student: Haoyue Shuai.
- 2018 Lab Rotation Supervisor for Alexa Woodward, Ph.D. Candidate in Epidemiology, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania.
- 2018 Lab Rotation Supervisor for Jessica Meeker, Ph.D. Candidate in Epidemiology, Graduate Group in Epidemiology and Biostatistics, University of Pennsylvania
- 2019 University of Pennsylvania. Mentored undergraduate student Su Ly as a research assistant 10-20 hours/week during school year and for 10 weeks during Summer 2019 as part of Short Term Educational Experiences for Research (STEER) in Environmental Science Program.
- 2019-2020 University of Pennsylvania. Mentored undergraduate student Lena Leszinsky as a research assistant 10-20 hours/week during school year and 30-40 hours/week during Summer 2019.
- 2019 University of Pennsylvania. Leonard Davis Institute of Health Economics, Summer Undergraduate Minority Research Program (SUMR). Weekly mentorship of undergraduate student Yinuo Zhang for 10 weeks.

- 2019-2020 University of Pennsylvania. Mentored Biotechnology Master's Program student Haoyue Shuai as a research assistant for 30-40 hours/week during Summer 2019 and 10-20 hours/week during school year.
- 2019 University of Pennsylvania. 7th Annual Symposium on Advances in Genomics, Epidemiology & Statistics (SAGES) Symposium invited speaker. June 7. "Enhancing Electronic Health Record-Derived Data with Data from Secondary Sources to Address Multifactorial Problems in Real Life Populations."
- 2019 University of Pennsylvania. Summer Undergraduate Minority Research (SUMR) Program seminar speaker. June 21. "Overview of Biomedical Informatics."
- 2019 Hospital of the University of Pennsylvania (HUP). Allergy & Immunology Conference invited speaker. September 13. "Asthma Genetics"
- 2019-2020 University of Pennsylvania. Mentored Biotechnology Master's Program student Yin Yin as a research assistant for 10-20 hours/week during school year.
- 2019-2020 University of Pennsylvania. Thesis committee member for Jiaxin Fan, Ph.D. Candidate in Biostatistics, Graduate Group in Epidemiology and Biostatistics.
- 2020-Present University of Pennsylvania. Thesis committee member for Jing Zhang, Ph.D. Candidate in Epidemiology, Graduate Group in Epidemiology and Biostatistics.
- 2020-Present University of Pennsylvania. Weekly mentorship of undergraduate student Abdul-Rakeem Yakubu for 10 weeks as part of the 2020 Leonard Davis Institute of Health Economics Summer Undergraduate Minority Research Program (SUMR) and 10-20 hours/week as a research assistant during school year.
- 2020-Present University of Pennsylvania. Mentored undergraduate student Alexandra Rizaldi for 10 weeks during Summer 2020 as part of Short Term Educational Experiences for Research (STEER) in Environmental Science Program and 10-20 hours/week as a research assistant during school year.
- 2020 University of Pennsylvania. Summer Undergraduate Internship Program (SUIP). Weekly mentorship of undergraduate student Dasia Jones for 6 weeks.
- 2020 University of Pennsylvania. Diversity Action Plan for PENN Genomics (DAPPG) summer program. Weekly mentorship of undergraduate student Sebastian Plasencia for 6 weeks.
- 2020 University of Pennsylvania. Lab Rotation Supervisor for Ceire Hay, Ph.D. Candidate in Immunology Graduate Group (IGG).
- 2020 University of Pennsylvania. CEET Community Engagement Core Stakeholder Advisory Board Meeting invited speaker. July 30. "COVID-19 Disparities in the Philadelphia Region."
- 2020-Present University of Pennsylvania. M.S. in Translational Research Thesis

- committee member for Heather M. Giannini, M.D. M.S., Pulmonary, Allergy, and Critical Care Division.
- 2020-Present University of Pennsylvania. Mentored undergraduate student Sheil Desai 10-20 hours/week as a research assistant during school year.
- 2020 University of Pennsylvania. Summer Undergraduate Minority Research (SUMR) Program seminar speaker. July 20. "Overview of Public Health Informatics."
- 2020 University of Pennsylvania. Lab Rotation Supervisor for Mary Ann Hazuga, Ph.D. Candidate in Graduate Group in Genomics and Computational Biology (GCB).
- 2020-Present University of Pennsylvania. Grant Writing Workshop. Course Director (12 hours). Audience: GGEB Epidemiology PhD students applying for F30/F31 NIH awards.
- 2020-Present University of Pennsylvania. Thesis committee member for Amy Campbell, Ph.D. Candidate in Graduate Group in Genomics and Computational Biology.
- 2020-Present University of Pennsylvania. Thesis committee member for Ariel Hippen-Anderson, Ph.D. Candidate in Graduate Group in Genomics and Computational Biology.
- 2020-Present University of Pennsylvania. Mentored Master's in Behavioral and Decision Sciences Program student Supriya Saxena as a research assistant for 30-40 hours/week during Summer 2020 and 10-20 hours/week during school year.
- 2020 University of Pennsylvania. Biomedical Postdoctoral Programs/Biomedical Postdoctoral Council invited speaker. December 15. "Twitter 101 for Academic Professionals."

Lectures by Invitation:

- Jun, 2012 "A Genome-wide Association Study Identifies SPATS2L as a Novel Bronchodilator Response Gene", Brigham and Women's Hospital Collaborative Asthma Research Group Monthly Meeting, Boston, MA
- Dec, 2012 "RNA-Seq Analysis Overview", Channing Division of Network Medicine OMICS Seminar, Brigham and Women's Hospital, Boston, MA
- Dec, 2012 "A Study of Asthma Pharmacogenomics Using RNA-Seq", Pharmacogenomics Research Network (PGRN) Statistical Analysis Resource (P-STAR) Analysis Workshop, Austin, TX
- Jan, 2013 "Social Media in Academics", Joint Committee on the Status of Women Monthly Meeting, Harvard Medical School, Boston, MA
- Feb, 2013 "Asthma Genetics and Genomics" Boston Children's Hospital Informatics Program Monthly Seminar, Boston, MA
- May, 2013 "RNA-Seq Bioinformatics", Channing Division of Network Medicine Bioinformatics Seminar, Brigham and Women's Hospital, Boston, MA
- Oct, 2013 "Transcriptome Profiling of Human Airway Smooth Muscle Cells

- Stimulated with Dexamethasone Identifies CRISPLD2 as a Regulator of Steroid and Immune Response", American Society of Human Genetics (ASHG) 63rd Annual Meeting, Boston, MA
- Nov, 2013 "Bioinformatics and Human Genetics," MIT Biomedical Computing (6.872/HST.950) guest lecturer, MIT, Cambridge, MA
- Dec, 2013 "The Effect of Vitamin D on the Airway Smooth Muscle Cell Transcriptome of Fatal Asthma Patients", Pharmacogenomics Research Network (PGRN) Statistical Analysis Resource (P-STAR) Analysis Workshop 2013, Nashville, TN
- Jan, 2014 "Using Genomic Techniques to Better Understand Asthma", University of Pennsylvania Institute for Biomedical Informatics Special Seminar, Philadelphia, PA.
- Jan, 2014 "Asthma Genetics and Genomics", University of California, San Diego Division of Biomedical Informatics Special Seminar, La Jolla, CA
- Mar, 2014 "Genomic Approaches to Study Asthma", University of Pennsylvania Center for Clinical Epidemiology and Biostatistics Seminar, Philadelphia, PA
- May, 2015 "Vitamin D Modulates Expression of the Airway Smooth Muscle Transcriptome in Fatal Asthma," American Thoracic Society (ATS) 2015 International Conference, Denver, CO
- Sep, 2015 "Precision Medicine in Asthma", Institute for Computational Biology Symposium 2015, Case Western Reserve University, Cleveland, OH
- Oct, 2015 "Biomedical Informatics Approaches to Study Asthma", 2015 Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) National Conference, Washington, DC
- May, 2016 "SOCS1 and SOCS3 Modulate Immune Response in the Airway Smooth Muscle," American Thoracic Society (ATS) 2016 International Conference, San Francisco, CA
- May, 2016 "Much Ado About Something: Introduction to Social Media," American Thoracic Society (ATS) 2016 International Conference, San Francisco, CA
- May, 2016 "Demographic and Socioeconomic Determinants of Asthma in the U.S.," American Thoracic Society (ATS) 2016 International Conference, San Francisco, CA
- Mar, 2017 "Health Information Technologies for Pediatrics Research," Child Health Research Series, Icahn School of Medicine at Mt. Sinai, New York, NY
- Apr, 2017 "How to Succeed in Academia," Graduate Research Day Keynote Speech, University of Tennessee College of Graduate Health Sciences, Memphis, TN
- May, 2017 "Omics - A Statistical and Computational Overview", "How to Use Omics to Study Lung Disease" post-graduate course at the ATS International Conference, Washington, DC

- May, 2017 "Genomics," American Thoracic Society (ATS) 2017 International Conference, Washington, DC
- May, 2017 "Data Processing, Storage and Quality Control," High-Throughput Sequencing in Respiratory, Critical Care, and Sleep Medicine Workshop, Sponsored by the American Thoracic Society, Washington, DC
- Sep, 2017 "Biomedical Informatics Approaches to Study Asthma," Institute for Translational Medicine and Science Seminar, Rutgers University, New Brunswick, NJ
- Nov, 2017 "Omics Approaches to Study Asthma" Australian Centre for Ancient DNA Public Lecture, The University of Adelaide, Adelaide, SA, Australia
- Nov, 2017 "From Raw NGS Data to Variants of Interest", The University of Adelaide, Adelaide, SA, Australia
- Feb, 2018 "Biomedical Informatics Approaches to Study Asthma," PREcisiOn Medicine Translational Research Center (PROMOTER) Center Seminar, Department of Population Medicine, Harvard Medical School, Boston, MA
- Mar, 2018 "Biomedical Informatics Approaches to Study Asthma," Division of Biomedical Informatics Seminar, University of California, San Diego, La Jolla, CA
- Apr, 2018 "Biomedical Informatics Approaches to Study Asthma," Pulmonary Research Conference, Yale School of Medicine, New Haven, CT
- Apr, 2018 "Data Science for Biomedical Informatics at the University of Pennsylvania" Biomedical Data Science Curriculum Initiative (<http://dbmi.hms.harvard.edu/education/biomedical-data-science-curriculum-initiative>), Department of Biomedical Informatics, Harvard Medical School, Webex Presentation
- May, 2018 "The Role of the Transcriptome in Asthma and Glucocorticoid Response," American Thoracic Society (ATS) 2018 International Conference, San Diego, CA
- May, 2018 "Using the EHR for Pharmacogenomics," "Studying Pharmacogenomics in Lung Disease and Critical Illness" post-graduate course at the ATS International Conference, San Diego, CA
- Jun, 2018 "Biomedical Informatics Approaches to Study Asthma," Lung Biology Center Seminar, University of California, San Francisco, San Francisco, CA
- Aug, 2018 "Writing your First R01," K to R01 Transition Workshop for DLD K Awardees, National Heart, Lung, and Blood Institute (NHLBI), Bethesda, MD
- Mar, 2019 "Biomedical Informatics Approaches to Study Asthma," Stanford Pulmonary and Critical Care Conference, Stanford University, Stanford, CA
- Mar, 2019 "Integrative Analyses to Uncover Biological Mechanisms Mediating Gene Associations with Asthma Drug Response Among Minority

	Children," Asthma Collaboratory Seminar, University of California San Francisco, San Francisco, CA
Apr, 2019	"Biomedical Informatics Approaches to Study Asthma," Allergy and Immunology Grand Rounds, Icahn School of Medicine at Mount Sinai, New York, NY
May, 2019	"Biomedical Informatics Approaches to Study Asthma," Computational Health Informatics Program Seminar, Boston Children's Hospital, Boston, MA
May, 2019	"Commonalities and Common Methods in Diverse Omics Data: A Practical Guide to Analysis," "A Researcher's Guide to Integrating the Pulmonary Omicsverse" post-graduate course at the ATS International Conference, Dallas, TX
Sep, 2019	"Enhancing Electronic Health Record (EHR)-Derived Data with Data from Secondary Sources to Address Multifactorial Problems in Real Life Populations," Harvard Chan NIEHS Center Particulate Matter and Other Air Pollutants Core Seminar Series, Harvard TH Chan School of Public Health, Boston, MA
Oct, 2019	"Biomedical Informatics Strategies to Study Asthma," Pulmonary and Critical Care Grand Rounds, University of Alabama at Birmingham, Birmingham, AL
Nov, 2019	"Biomedical Informatics Strategies to Study Asthma," 25th Annual Fall Symposium, Asthma and Allergy Center, Johns Hopkins University, Baltimore, MD
Jan, 2020	"Ten Things I wish a Biomedical Scientist Knew before Coming to See Me" Data Science Workshop, National Heart, Lung, and Blood Institute, National Institutes of Health, Webex Presentation
May, 2020	"RNA-Seq Analysis," "A Practical, Hands-On Introduction to Genomic Analysis in Pulmonary Medicine" post-graduate course at the ATS International Conference, Philadelphia, PA [Cancelled due to COVID-19]
Aug, 2020	"Integrative Analyses of Omics Data to Understand Asthma Drug Response," American Thoracic Society (ATS) 2020 International Conference Virtual Meeting
Oct, 2020	"Genetics of Bronchodilator Response in Diverse Populations," American Society of Human Genetics (ASHG) 2020 Virtual Meeting
Nov, 2020	"Impact of Individual versus Geographic-Area Measures of Socioeconomic Status on Health Associations Observed in the Behavioral Risk Factor Surveillance System," American Medical Informatics Association (AMIA) 2020 Virtual Annual Symposium.

Organizing Roles in Scientific Meetings:

May, 2015	Session Co-Chair, "Genetic Signatures of Asthma: Key to Endotypes?," American Thoracic Society (ATS) 2015 International Conference Denver, CO
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- Oct, 2015 Organizer and Session Chair, Striving to Understand Asthma and Reduce Disparities, 2015 Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) National Conference
Washington, DC
- May, 2016 Session Co-Chair, "Genetics and Genomics of COPD," American Thoracic Society (ATS) 2016 International Conference
San Francisco, CA
- Jun, 2016 Session Moderator, Symposium on Advances in Genomics, Epidemiology & Statistics (SAGES): "From Phenotype to Genotype & Everything In-Between: New Computational Tools for Disease Gene Discovery"
Philadelphia, PA
- Oct, 2016 Planning Committee Member, Mid-Atlantic Bioinformatics Conference: Computational Challenges for Precision Medicine
Philadelphia, PA
- Jan, 2017 Program Committee Member, Pacific Symposium on Biocomputing (PSB), Precision Medicine: From Genotypes And Molecular Phenotypes Towards Improved Health And Therapies Session
Big Island, HI
- Mar, 2017 Reviewer, AMIA Joint Summits on Translational Science
San Francisco, CA
- May, 2017 Co-chair, "How to Use Omics to Study Lung Disease" post-graduate course at the American Thoracic Society (ATS) 2017 International Conference
Washington, DC
- May, 2017 Poster Facilitator, Genetics and Genomics of Lung Disease, American Thoracic Society (ATS) 2017 International Meeting
Washington, DC
- May, 2017 Co-Chair, An Official Research Statement of the ATS and NHLBI: Current Status and Future Directions in Lung Precision Medicine Research Workshop, Sponsored by the American Thoracic Society (ATS)
Washington, DC
- Nov, 2017 Session Chair, "System Demonstrations - Data Mining and Data Science," American Medical Informatics Association (AMIA) 2017 Annual Symposium
Washington, DC
- Nov, 2017 Reviewer, AMIA 2017 Annual Symposium
Washington, DC
- Mar, 2018 Reviewer, AMIA Joint Summits on Translational Science
San Francisco, CA
- Nov, 2018 Reviewer, AMIA 2018 Annual Symposium
San Francisco, CA
- May, 2019 Co-chair, "A Researcher's Guide to Integrating the Pulmonary Omicsverse" post-graduate course at the American Thoracic Society

	(ATS) 2019 International Conference Dallas, TX
Nov, 2019	Reviewer, AMIA 2019 Annual Symposium Washington, DC
Mar, 2020	Reviewer, AMIA Joint Summits on Translational Science Virtual
Oct, 2020	Session Moderator, "Adult and Pediatric Asthma Genetics Studies," American Thoracic Society (ATS) Virtual Mini-Symposia Virtual
Nov, 2020	Session Moderator, "Surveillance Informatics," AMIA 2020 Virtual Annual Symposium Virtual
Nov, 2020	Reviewer, AMIA 2020 Annual Symposium Virtual
Mar, 2021	Member, AMIA 2021 Informatics Summit Scientific Program Committee Virtual

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Research Publications, peer reviewed (print or other media):

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2. Paulus MP, Hozack NE, **Zauscher BE**, Frank L, Brown GG, Braff DL, Schuckit MA.: Behavioral and Functional Neuroimaging Evidence for Prefrontal Dysfunction in Methamphetamine-Dependent Subjects. Neuropsychopharmacology 26(1): 53-63, 2002 Notes: Also published as **Zauscher BE**.
3. Paulus MP, Hozack NE, **Zauscher BE**, Frank L, Brown GG, McDowell J, Braff DL.: Parietal Dysfunction is Associated with Increased Outcome-Related Decision-Making in Schizophrenia Patients. Biol Psychiatry 51(12): 995-1004, 2002 Notes: Also published as **Zauscher BE**.
4. Alwayn IP, Andersson C, **Zauscher B**, Gura K, Nose V, Puder M. : Omega-3 Fatty Acids Improve Hepatic Steatosis in a Murine Model: Potential Implications for the Marginal Steatotic Liver Donor. Transplantation 79(5): 606-8, 2005 Notes: Also published as **Zauscher B**.
5. Alwayn IP, Gura K, Nose V, **Zauscher B**, Javid P, Garza J, Verbesey J, Voss S, Ollero M, Andersson C, Bistrrian B, Folkman J, Puder M.: Omega-3 Fatty Acid Supplementation Prevents Hepatic Steatosis in a Murine Model of Nonalcoholic Fatty Liver Disease. Pediatr Res 57(3): 445-52, 2005 Notes: Also published as **Zauscher B**.

6. Dallabrida SM, Ismail N, Oberle JR, **Himes BE**, Rupnick MA.: Angiopoietin-1 Promotes Cardiac and Skeletal Myocyte Survival Through Integrins. Circ Res 96(4): e8-24, 2005.
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8. Alwayn IP, Andersson C, Lee S, Arsenault DA, Bistrrian BR, Gura KM, Nose V, **Zauscher B**, Moses M, Puder M.: Inhibition of Matrix Metalloproteinases Increases PPAR-Alpha And IL-6 and Prevents Dietary-Induced Hepatic Steatosis and Injury in a Murine Model. Am J Physiol Gastrointest Liver Physiol 291(6): G1011-9, 2006 Notes: Also published as **Zauscher B**.
9. **Himes BE**, Kohane IS, Ramoni MF, Weiss ST: Characterization of Patients who Suffer Asthma Exacerbations Using Data Extracted from Electronic Medical Records. AMIA Annu Symp Proc Page: 308-12, 2008 Notes: Proceeding represents original peer-reviewed research. PMID: PMC2655929
10. **Himes BE**, Dai Y, Kohane IS, Weiss ST, Ramoni MF.: Prediction of Chronic Obstructive Pulmonary Disease (COPD) in Asthma Patients Using Electronic Medical Records. J Am Med Inform Assoc 16(3): 371-9, 2009. PMID: PMC2732240
11. **Himes BE**, Hunninghake GM, Baurley JW, Rafaels NM, Sleiman P, Strachan DP, Wilk JB, Willis-Owen SA, Klanderma B, Lasky-Su J, Lazarus R, Murphy AJ, Soto-Quiros ME, Avila L, Beaty T, Mathias RA, Ruczinski I, Barnes KC, Celedon JC, Cookson WO, Gauderman WJ, Gilliland FD, Hakonarson H, Lange C, Moffatt MF, O'Connor GT, Raby BA, Silverman EK, Weiss ST.: Genome-Wide Association Analysis Identifies PDE4D as an Asthma-Susceptibility Gene. Am J Hum Genet 84(5): 581-93, 2009. PMID: PMC2681010
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13. Ramoni RB, **Himes BE**, Sale MM, Furie KL, Ramoni MF: Predictive Genomics of Cardioembolic Stroke. Stroke 40(3 Suppl): S67-70, 2009. PMID: PMC2752697
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