

Elizabeth C. Matsui, MD MHS

Department of Population Health
Dell Medical School at the University of Texas at Austin
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Education

M.H.S., Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	2002-2004
M.D., Vanderbilt University School of Medicine, Nashville, TN	1989-1993
B.A., magna cum laude in Molecular Biology, Vanderbilt University, Nashville, TN	1986-1989

Postdoctoral Training

Fellowship, Allergy/Immunology Johns Hopkins University School of Medicine, Baltimore, MD	2001-2003
Laboratory of Peyton Eggleston, M.D., Division of Pediatric Allergy/Immunology, Johns Hopkins University School of Medicine, Baltimore, MD	2001-2003
Internship and Residency in Pediatrics University of California at San Francisco, San Francisco, CA	1993-1996

Academic and Leadership Appointments

Associate Dean for Faculty Academic Affairs, Dell Medical School at The University of Texas at Austin	2023-Present
Interim Assistant Dean of Faculty Affairs, Dell Medical School at The University of Texas at Austin	2022-Present
Program Director, T32 Post-doctoral Fellowship: Promoting Equity In Cardiovascular Health, Dell Medical School and Steve Hicks School of Social Work at The University of Texas at Austin	2020-Present
Associate Director, Health Transformation Research Institute, Dell Medical School at The University of Texas at Austin	2020-2023
Director, Center for Health and Environment: Education and Research (CHEER), Dell Medical School at The University of Texas at Austin	2019-Present
Associate Program Director, T32 Post-doctoral Fellowship: Promoting Equity In Cardiovascular Health, Dell Medical School and Steve Hicks School of Social Work at The University of Texas at Austin	2019-2020
Professor of Population Health, Dell Medical School at the University of Texas at Austin	2018-Present
Professor of Pediatrics, Dell Medical School at the University of Texas at Austin	2018-Present

Associate Chair of Research, Department of Population Health, Dell Medical School at The University of Texas at Austin	2018-2023
Faculty Fellow, Center for Health and Social Policy, University of Texas at Austin	2018-2020
Adjunct Faculty at the School of Public Health, The University of Texas Health Sciences Center at Houston	2018-2024
Director, Data Management Core for the Division of Pediatric Allergy/Immunology, Johns Hopkins University School of Medicine, Baltimore, MD	2016-2018
Director, Data Management Core for the Center for Childhood Asthma in the Urban Environment, Johns Hopkins University School of Medicine, Baltimore, MD	2005-2016

Other Relevant Employment and Clinical Activities

Vice Chair of Research, Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD	2017-2018
Professor, Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD	2015-2018
Professor, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	2015-2018
Professor, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	2015-2018
Associate Professor, Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD	2008-2015
Associate Professor, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	2008-2015
Associate Professor, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	2008-2015
Assistant Professor, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	2006-2008
Active Staff and Attending Physician, The Johns Hopkins Hospital, Baltimore, MD	2003-2018
Assistant Professor, Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, MD	2003-2008
Staff Pediatrician, Franklin Square Hospital Center, Baltimore, MD	1998-2000
Research Assistant, Department of Oncology, University of Washington, Seattle, WA	1996-1998
Locum tenens, Group Health Cooperative, Seattle, WA	1996-1998
Research Assistant, Department of Physiology and Biophysics, Vanderbilt University Medical Center, Nashville, TN	1989

Institutional Administrative Appointments

Member, Dell Medical School Admissions Task Force Committee	2024
Member, Search Committee for Vice Dean of Education	2023-2024
Alternate Member, HSIRB (Health Science Institutional Review Board), The University of Texas at Austin	2022
Member, Professional Practice Evaluation Committee (PPEC) of the Medical Service, Research, and Development Plan (MSRDP), Dell Medical School, The University of Texas at Austin	2021-Present
Research Metrics Work Group, Dell Medical School at The University of Texas at Austin	2021
UT Public Health Coalition Steering Committee	2023-Present
Public Health Ad Hoc Working Group, The University of Texas at Austin	2021
Research Policy Committee, The University of Texas at Austin	2020-2023
Council on Texas Impact Committee, The University of Texas at Austin	2019-2020
Chair, Puentes 2.0: Using Convergence Science in Population Health Committee, Dell Medical School at The University of Texas	2019
T32 Advisory Committee, Dell Medical School and Steve Hicks School of Social Work at The University of Texas at Austin	2019-Present
Data Core Advisory Board, Dell Medical School at The University of Texas at Austin	2019-2020
Chair, Associate Chairs of Research Committee (ACR), Dell Medical School at The University of Texas at Austin	2019-2023
Research Distinction Advisory Committee (RDAC), Dell Medical School at The University of Texas at Austin	2019-2023
Health Disparities Cluster Hire Advisory Committee, The University of Texas at Austin	2019-2022
Appointment, Promotion, and Tenure Committee (APT), Dell Medical School at The University of Texas at Austin	2019-Present
LCME Standard 4 Committee, Dell Medical School at The University of Texas at Austin	2019-2024
Research Enterprise Committee (REC), Dell Medical School at The University of Texas at Austin	2019
Cluster and Interdisciplinary Hiring Review, The University of Texas at Austin	2019
Executive Committee, Department of Population Health, Dell Medical School at The University of Texas at Austin	2018-2023
Executive Committee, Department of Pediatrics, Dell Medical School at The University of Texas at Austin	2018-2022
Professorial Promotions Subcommittee, Johns Hopkins	2017
Compensation Committee, Department of Pediatrics, Johns Hopkins	2016-2018

Search Committee, Division Chief Pediatric Endocrinology, Johns Hopkins	2016-2018
Department of Pediatrics Quality and Safety Committee, Johns Hopkins	2015-2018
KL2 Selection Committee, Johns Hopkins	2010-2018
Internal Advisory Board–Institute for Clinical and Translational Research, Johns Hopkins	2008-2012
Intern Applicant Reviewer, Department of Pediatrics, Johns Hopkins	2007-2016
Member, GCRC Pediatric Protocol Review Subcommittee, Johns Hopkins	2006-2018

Honors and Awards

Selected to Participate in Texas Women’s Leadership Program	2024
AAAAI Elliot Ellis Memorial Lectureship Award	2024
Dell Medical School Shine Award for Excellence in Research Mentorship	2023
Bret Ratner Pediatric Allergy and Immunology Research Award, American Academy of Pediatrics	2022
AAAAI Inaugural Gary Rachelefsky Lectureship Award	2018
Baltimore City Health Equity Leadership Award	2017
Pharf Award	2012
International Award for Outstanding Young Investigator in Allergy/Immunology	
Women’s Leadership Program, Johns Hopkins School of Medicine	2011
Indoor Biotechnologies Travel Award, AAAAI Annual Meeting	2005
AAAAI Outstanding Pediatric Abstract Award	2004
Housestaff Teaching Award	1996
Alpha Omega Alpha	1992
Phi Beta Kappa	1989

Professional Memberships and Activities with Leadership Positions

Travis County Medical Society	2018-Present
Texas Medical Association	2018-Present
American Academy of Asthma, Allergy and Immunology (AAAAI)	2001-Present
Volunteerism Addressing Environmental Disparities in Allergy Task Force	2024
Co-Chair, Faculty Development Program	2020-Present
Mentor, Faculty Development Program	2019-2024
Reviewer, Faculty Development Award Review Panel	2016, 2019- 2022
Ask the Expert Panel	2016-2019

Clinical Science Work Group, AAAAI Annual Meeting Program Committee	2016-2018
Member, Grant Review Committee	2015-2022
Member, Environmental Exposures and Respiratory Disease Committee	2015-Present
Chair, Air Pollution and Indoor Allergen Committee	2013-2015
Vice Chair, Air Pollution and Indoor Allergen Committee	2011-2013
Chair, Indoor Allergen Slide Set Committee	2010
Executive Council, AAAAI Annual Meeting Program Committee	2010-2012
Chair, Workshops Committee	2010-2012
Vice Chair, Workshops Committee	2008-2010
AAAAI Annual Meeting Program Committee	2008-2009
Environmental and Occupational Respiratory Diseases Interest Section AAAAI, Workshops Vice Representative	2005-2007
American Academy of Pediatrics (AAP)	1996-Present
Section on Allergy and Immunology, Executive Committee Chairperson	2015-2020
Section on Allergy and Immunology, Executive Committee Immediate Past Chair	2020-2023
Section on Allergy and Immunology, Member	2012-Present
National Conference and Exhibit Section Program Chair	2012-2015
Section on Allergy and Immunology, Executive Committee Member	2009-2023
Section on Allergy and Immunology, Outreach Chair	2008-2012

Educational Activities

Teaching Activities

Guest Lecture, "Selecting a Research Project and Developing a Hypothesis," Medical Student Research Distinction Orientation Program, The University of Texas at Austin	2023-2024
Provost's Mentored Faculty Scholars Program, The University of Texas at Austin	2022-2023
Dell Med Connect Mentorship Program, Dell Medical School at The University of Texas at Austin	2021-Present
Guest Lecturer, From Great Ideas to Clear Results (I2R) Course, Dell Medical School at The University of Texas at Austin	2019-2024
Guest Lecturer, The Nuts and Bolts of Executing a Clinical or Population Research Study, Dell Medical School at The University of Texas at Austin	2019-2023
Grand Rounds, Department of Pathology, Johns Hopkins	2011
Grand Rounds, Department of Medicine, Johns Hopkins	2010

Bayview Asthma and Allergy Center, Clinical Conference, Johns Hopkins	2005-2010
Medical Students' Pathophysiology Course, Small Group Leader, Johns Hopkins	2004, 2018
Allergy/Immunology Fellows' Board Review Course, Johns Hopkins	2004-2010
Pediatric Research Conference, Johns Hopkins	2004-2016
Pediatric Pulmonology Clinical Conference, Johns Hopkins	2004-2009
Grand Rounds, Department of Pediatrics, Johns Hopkins	2004-2011

CME Instruction

Eastern Allergy Conference	2018
American College of Allergy, Asthma, and Immunology Annual Meeting	2014, 2017
Individualizing Therapy for Patients with Respiratory Disease, Bayview Asthma and Allergy Center	2011
American Academy of Pediatrics National Conference and Exhibition	2009-2015, 2019
Frontiers in Asthma and Allergy, Bayview Asthma and Allergy Center	2005
Pediatric Trends, Johns Hopkins Department of Pediatrics	2005-2015
American Academy of Allergy, Asthma, and Immunology Annual Meeting	2005-2025

Development of Curricula and Educational Materials

Elizabeth Matsui	2019-2023
"The Nuts and Bolts of Executing a Clinical or Population Research Study" Health Transformation Research Institute Dell Medical School, University of Texas at Austin	

Elizabeth Matsui, Paul Rathouz and Alison Cahill	2019-2023
"From Great Ideas to Clear Results (I2R)" Data, Epidemiology & Statistics for Clinical & Population Health Investigation, Biomedical Data Science Hub and Health Transformation Research Institute Dell Medical School, University of Texas at Austin	

Bair-Merritt, MH, Okelo S, Matsui EC	2014-2016
"Outpatient Asthma Diagnosis and Management" in Moon M, Cheng T, Serwint J and Crocetti M, eds. Johns Hopkins Harriet Lane Continuity Clinic Curriculum: Internet Learning Program. www.hopkinsilc.org	

Advising and Mentoring

Students

Emily Hall, DrPH Student Department of Environmental Health & Engineering Johns Hopkins Bloomberg School of Public Health	2023-Present
Rebecca A. Zarate, MA, PhD candidate in Quantitative Methods Department of Educational Psychology The University of Texas at Austin	2019-2024
Emily Croce, MSN, APRN, CPNP-PC, PhD candidate School of Nursing at The University of Texas at Austin	2020-2022
Sriram Palepu, Pre-medical Undergraduate The University of Texas at Austin	2019-2020
David Buxton, MD, MPH candidate Johns Hopkins School of Public Health	2017-2018
Elizabeth Kasameyer, Program, DrPH student in Environmental Health Sciences Johns Hopkins Bloomberg School of Public Health	2011-2014

Graduate Student Oral Exam and Thesis/Dissertation Committees

Emily Hall, DrPH Student Department of Environmental Health & Engineering Johns Hopkins Bloomberg School of Public Health Thesis Committee Member	2023-Present
Rebecca A. Zarate, MA, PhD candidate in Quantitative Methods Department of Educational Psychology The University of Texas at Austin Thesis Committee Member	2023-2024
Sean Engels, PhD Candidate in Chemical Engineering The University of Texas at Austin, Contreras Group McKetta Department of Chemical Engineering Thesis Committee Member	2023-2024
Rebecca Knowlton, PhD Candidate in Statistics and Data Science The University of Texas at Austin College of Natural Sciences Thesis Committee Member	2023-2024
Sangeetha Kumar; PhD Candidate in Civil Engineering The University of Texas at Austin, Cockrell School of Engineering, The University of Texas at Austin, Cockrell School of Engineering,	2021-2022

Department of Civil, Architectural and Environmental Engineering Thesis Committee Member	
Juyeon Park; PhD candidate in Cell and Molecular Biology The University of Texas at Austin, Institute for Cellular and Molecular Biology Department of Molecular Sciences Thesis Committee Member	2021-2024
Travis Lilley; PhD candidate in Statistics, The University of Texas at Austin, College of Natural Sciences, Department of Statistics and Data Sciences Oral Exam Committee Member/Thesis Committee Member	2020-2023
Emily Croce, MSN, APRN, CPNP, PhD candidate in Nursing The University of Texas at Austin, School of Nursing Thesis Committee Co-Chair	2020-2022
Jonathan D. Gingrich; PhD candidate in Environmental & Water Resources Engineering, The University of Texas at Austin Department of Civil, Architectural and Environmental Engineering Oral Exam Committee Member/Thesis Committee Member	2020-2022
Kamau O. Peters; PhD candidate in Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health School-wide Oral Exam Committee Member	2011-2014
Elizabeth Kasameyer; DrPH candidate in Environmental Health Sciences Johns Hopkins Bloomberg School of Public Health School-wide Oral Exam Committee, Thesis Committee	2011-2014
Corinne Keet, MD; PhD candidate in Epidemiology, Johns Hopkins Bloomberg School of Public Health Thesis Committee Member	2012-2014
Jenna Krall; PhD candidate in Biostatistics, Johns Hopkins Bloomberg School of Public Health Thesis Committee Member	2013-2014

Medical Students

Aquiel Warner, MD Candidate, Class of 2025 Dell Medical School, The University of Texas at Austin	2023-2024
Alexander L. Chu, MPhilPH BSC (Hons), MD Candidate, Class of 2024 Dell Medical School, The University of Texas at Austin	2022-2023
William Max Wright, MD Candidate, Class of 2023 Dell Medical School, The University of Texas at Austin	2021-2022
Kelsey Mumford, MD Candidate, Class of 2022 Dell Medical School at The University of Texas at Austin	2019-2020

Michelle (Xue) Zhang, MD candidate, class of 2021 Dell Medical School at The University of Texas at Austin	2019-2020
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Medical Residents

Erika Raley, MD, PGY-2 Internal Medicine Resident Department of Internal Medicine Dell Medical School at The University of Texas at Austin	2020-2021
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Post-doctoral Training Grant Participation

NIEHS, R25, PAR-21-168, PI-Richburg Summer Research Education Experience Program	2025-Present
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DHHS/NIH, 1T32 NR019035-01, PI-Kim Precision Health Intervention Methodology Training in Self-Management of Multiple Chronic Conditions/Predoctoral Training	2020-Present
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NIH/NHLBI, T32 HL140290, PI-Cubbin, Castro, Matsui Post-doctoral training in promoting health equity in cardiovascular disease	2018-Present
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NIH/NIAID, T32 AI007007, PI-Wood Research Training in Pediatric Allergy and Immunology	2004-Present
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NIH/NIAID, T32 AI007056, PI-Bochner Basic and Clinical Immunology	2004-2009
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NIH/NHLBI, T32 HL072748, PI-Zeitlin Multidisciplinary Training Program in Pediatric Pulmonology	2009-2018
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NIH/NICHD, T32 HD044355, PI-Dover Institutional Training for Pediatricians	2012-2016
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NIH/NICHD, T32 HD044355, PI-Cheng, Program Directors: Murphy and Matsui Institutional Training for Pediatricians	2017-2018
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NIH/NHLBI, T32 HL007534, PI-Wise Multidisciplinary Training Program in Lung Disease	2016-2018
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Post-doctoral and Fellow Trainees

Sophia Gauthier, MD Fellow, Pediatric Hospital Medicine Dell Medical School, UT Austin	2023-Present
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Emily Croce, PhD, CPNP-PC, RN Steve Hicks School of Social Work and Department of Population Health, Post-doctoral fellow The University of Texas at Austin	2022-2025
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Lexie Grove, PhD, MSPH Department of Population Health	2021-2023
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Dell Medical School at The University of Texas at Austin	
Sarah E. Chambliss, PhD Department of Statistics and Data Sciences, Post-doctoral fellow The University of Texas at Austin	2021-Present
Kevin Lanza, PhD UT Health School of Public Health, Post-doctoral fellow The University of Texas at Austin	2021- Present
Daniel Katz, PhD Department of Population Health, Post-doctoral fellow Dell Medical School at The University of Texas at Austin	2019-2021
Nicholas Jabre, MD Division of Pediatric Pulmonology, Post-doctoral fellow Johns Hopkins School of Medicine	2017-2020
Ammara Ahmed, DO Division of Pediatric Allergy and Immunology, Post-doctoral fellow Johns Hopkins School of Medicine	2017-2019
Suzanne Rossi Kochis, MD Division of Pediatric Allergy and Immunology, Post-doctoral fellow Johns Hopkins School of Medicine	2016-2019
Torie Grant, MD Division of Pediatric Allergy and Immunology, Post-doctoral fellow Johns Hopkins School of Medicine	2014-2018
Meghan Davis, MPH PhD Department of Environmental Health Sciences, Post-doctoral fellow Johns Hopkins Bloomberg School of Public Health	2012-2015
Emily McGowan, MD, MHS Division of Allergy and Immunology, Post-doctoral fellow Johns Hopkins School of Medicine	2011-2015
Kim Lu, MD Division of Pediatric Pulmonology, Post-doctoral fellow Johns Hopkins School of Medicine	2010-2013
Sharon Ahluwalia, MD Division of Pediatric Allergy and Immunology, Post-doctoral fellow Johns Hopkins School of Medicine	2010-2013
Jessica Savage, MD MHS, Program, Role Division of Allergy and Immunology, Post-doctoral fellow Johns Hopkins School of Medicine	2009-2012
Jenny Lin, MD Division of Pediatric Pulmonology, Post-doctoral fellow Johns Hopkins School of Medicine	2009-2012
Erika Torjusen, MD MHS	2009-2012

Division of Pediatric Allergy and Immunology, Post-doctoral fellow
Johns Hopkins School of Medicine

Laura Chong, MD 2009-2012
Division of Allergy and Immunology, Post-doctoral fellow
Johns Hopkins School of Medicine

Hemant Sharma, MD 2008-2011
Division of Pediatric Allergy and Immunology, Post-doctoral fellow
Johns Hopkins School of Medicine

Junior Faculty Mentees

Folashade Afolabi, MD 2024-Present
Division of Pediatric Pulmonary and Sleep Medicine, Associate Professor
UT Southwestern Medical Center at Dallas

Aishwarya Navalpakam, MD 2024-2025
AAAAI Leadership Institute Mentorship Program
Children's Hospital of Michigan, Central Michigan University College of Medicine

Yan Zhang, PhD 2022-2023
School of Information, Associate Professor
The University of Texas at Austin

Trisha Parekh, DO 2022-Present
Department of Internal Medicine, Assistant Professor
Dell Medical School at The University of Texas at Austin

Darlene Bhavnani, PhD, MPH 2021-Present
Department of Population Health, Infectious Disease Epidemiologist and
Assistant Professor
Dell Medical School at The University of Texas at Austin

Adam Haber, PhD 2021-Present
Environmental Health Department, Assistant Professor
Harvard School of Public Health

Tessa Novick, MD, MSW, MHS 2021-Present
Department of Internal Medicine, Assistant Professor
Dell Medical School at The University of Texas at Austin

Erin Rodriguez, PhD 2019-Present
Department of Educational Psychology, Assistant Professor
The University of Texas at Austin

Virginia A. Brown, MA, PhD 2019-2023
Department of Population Health, Assistant Professor
Dell Medical School at The University of Texas at Austin

Marissa Burgermaster, PhD 2019-2023
Department of Population Health, Assistant Professor
Dell Medical School at The University of Texas at Austin

Justin Rousseau, MD Department of Population Health, Co-Director of The Data Core Dell Medical School at The University of Texas at Austin	2019-2023
Pooja Varshney, MD Clinical Assistant Professor Dell Medical School at The University of Texas at Austin	2019-Present
Ana Avalos, MD Department of Pediatrics, Assistant Professor Dell Medical School at The University of Texas at Austin	2018-2021
Torie Grant, MD MHS Division of Pediatric Allergy/Immunology, Assistant Professor Johns Hopkins School of Medicine	2018-Present
Christy Sadreameli, MD, MHS Division of Pediatric Pulmonology, Assistant Professor Johns Hopkins School of Medicine	2016-Present
Lesliam Quiros-Alcala, PhD Applied Environmental Health, Assistant Professor University of Maryland School of Public Health	2015-Present
Nirupama Putcha, MD MHS Division of Pulmonology and Critical Care Medicine, Assistant Professor Johns Hopkins School of Medicine	2014-Present
Meghan Davis, MPH PhD Department of Environmental Health Sciences, Assistant Professor Johns Hopkins Bloomberg School of Public Health	2012-2019
Emily McGowan, MD, MHS Division of Allergy and Immunology, Assistant Professor University of Virginia School of Medicine	2015-2019
Murray Ramanathan, MD Department of Otolaryngology, Assistant Professor Johns Hopkins School of Medicine	2010-2016
Corinne Keet, MD MS Division of Pediatric Allergy/Immunology, Assistant Professor Johns Hopkins University School of Medicine	2007-2014
Meredith McCormack, MD MHS Division of Pulmonary and Critical Care Medicine, Assistant Professor Johns Hopkins University School of Medicine	2004-2014

Clinical Activities

Certification

Maintenance of Certification, Allergy and Immunology	2003-Present
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American Board of Allergy and Immunology	
Diplomate, Allergy and Immunology	2003
American Board of Allergy and Immunology	
Recertified, Pediatrics, American Board of Pediatrics	2002
Diplomate, Pediatrics, American Board of Pediatrics	1996
Licensure	
State of Maryland (D0053336)	2019-Present
State of Texas (R6439)	2018-Present
Clinical Service Responsibilities	
Dell Children's Medical Group, Allergy/Immunology Clinic, weekly	2019-Present
Pediatric Allergy Clinic, Johns Hopkins, weekly	2004-2018
Allergy Consult Service, Johns Hopkins, 4 months per year	2004-2018

Grants

Current

U01AI177195, MPI's: Nirupama Putcha and Nadia Hansel 2024-2031

NIH/NIAID

Title: Clinical trial of omalizumab for allergen sensitized and exposed individuals with COPD.

This project is a multi-center randomized, placebo-controlled phase II trial of omalizumab in adults with Chronic Obstructive Pulmonary Disease (COPD) having sensitization and exposure to indoor allergens. The study will evaluate omalizumab's efficacy in improving disease status, lung function, and exacerbation risk.

\$15,188,658 (\$83,340 Subaward)

Role: Co-I (3%)

1R01ES034803-01, PI: Elizabeth Matsui 2023-2027

NIH/NIEHS

Title: Urban planning, siting of air pollution sources, and asthma disparities.

The goal of this project is to prove that racial and ethnic disparities in asthma are caused by urban planning policies that resulted in exposure to more, and more toxic, sources of air pollution (AP) by proposing the following specific aims 1) to characterize AP sources, estimate AP concentrations, and examine their associations with neighborhood sociodemographic characteristics across the State of Texas, 2) to identify the AP sources that contribute to racial and ethnic childhood asthma disparities, and 3) to explore the effects of zoning and gentrification on the distribution of AP sources across neighborhoods in Travis County.

\$2,587,056

Role: PI (15%)

R34 HL159126-01A1, PI: Elizabeth Matsui

2022-2025

NIH/NHLBI

Title: A culturally tailored, scalable asthma intervention for Mexican American children

The goal of this study is to create a multilayered asthma intervention designed to reduce asthma morbidity among Mexican American children by (1) Developing Asma Guardián, a culturally-tailored asthma intervention that facilitates access to asthma specialist care and provides education and support for family asthma management and home environmental interventions, and (2) To conduct a pilot trial to inform the planning of a statewide trial of Asma Guardián.

\$713,250

Role: PI (8%)

4991-RFA E20-1/21-14, PI: Lea Hildebrant Ruiz

2022-2024

Health Effects Institute

Title: Predictive, source-oriented modeling and measurements to evaluate community exposures to air pollutants and noise from unconventional oil and gas development

The main goal of this project is to generate a broadly applicable community model which can assess exposures to air pollutants from UOGD and inform future health studies.

\$2,499,620

Role: Co-Investigator (5%)

R01MD014145-04 PI: Erin Rodriguez

2020-2025

NIH/NIMHD

Title: A Coping Skills Intervention for Low-SES Latino Families of Children with Asthma

The aims of this study compare the effectiveness of Adapt 2 Asthma (A2A) with standard asthma self-management (AM) to improve asthma control and asthma-related functional outcomes in families of low-SES Latino children with asthma.

\$2,810,125

Role: Co-Investigator (6%)

R01ES026170-07, Multiple PI: Elizabeth Matsui, Corinne Keet, Craig Pollack

2016-2026

NIH/NIEHS

Title: The Effect of a Housing Mobility Program on Environmental Exposures and Asthma Morbidity Among Low-Income Minority Children

Our specific aims are (1) To determine the effect of moving from a low-income urban neighborhood to good quality housing in a better neighborhood on asthma and (2) To estimate the causal effects of reducing indoor pest allergens and pollution by moving to better housing on asthma outcomes using principal stratification, a statistical method for causal inference in environmental studies.

\$4,286,614, (\$286,743 Subaward)

Role: PI (11.4%)

UM1TR004538, MPI's: Clark, R.A., Hargreaves, K.M., Potter, J.S., Ramirez, A. 2024-2030

NIH/NCATS

Title: Clinical Translational Science Award (CTSA) to support the institute for Integration of Medicine and Science (IIMS): A Partnership to Improve Health

Accelerate clinical and translational research innovation and team science along the entire research spectrum by providing an academic home integrated with our strategic partner institutions.

\$284,739

Role: Co-I (10%)

R01ES035131, PI: Elizabeth Matsui 2024-2028

NIH/NIEHS

Title: Childhood Asthma: Disease Course and Lung Function Trajectories and Air Pollution Exposure.

The major goals of this study are (1) to examine associations between lung function growth and PM exposure (sources, composition, and concentrations); (2) to examine associations between persistence of disease severity, measured by the Composite Asthma Severity Index (CASI) and PM exposure (sources, composition, and concentrations); and (3) to examine associations between trajectories of nasal epithelial lining fluid (NELF) biomarkers associated with airway remodeling and lung function decline and PM exposure (sources, composition, and concentrations).

\$3,289,034

Role: PI (15%)

Pending

R01, PI: Darlene Bhavnani 2025-2030

NIH

Title: Viral Acute Respiratory Infections in Children with Asthma and the Role of Neighborhood Stressors

Major Goals: The major goals of this study are (1) to examine the effects of neighborhood disadvantage and stressors on viral ARI and host viral defense; (2) to examine the effects of neighborhood disadvantage and stressors on viral associated asthma exacerbations; and (3) to examine the extent to which neighborhood disadvantage and stressors explain racial and ethnic disparities in viral ARI and viral-associated asthma exacerbations.

\$3,968,330

Role: Co-I (10%)

U01, PD/PI: Keet, Corinne

2025-2030

NIH

Title: Evaluating the Transformational Potential of Housing Mobility to Shape Lifelong Respiratory Health

Major Goals: The major goal of this project is to understand the role of birth neighborhood and the potential of housing mobility programs to reduce the risk of asthma development and decrements in lung function, and ultimately asthma and lung function disparities. Project Number:

\$148,453

Role: Co-I

TAMEST Hill Prize, PI: Elizabeth Matsui

2025-2027

Texas Academy of Medicine, Engineering, Science, and Technology

Title: Climate change-related environmental changes are important contributors to adverse maternal and birth outcomes and their associated disparities

Major Goals: Establishing climate change as a significant cause of adverse maternal and birth outcomes and disparities to provide the key data necessary for developing and testing primary prevention strategies that are strongly positioned to be effective.

\$500,000

Role: PI

Completed

R01HL098354-08, PI: Rebecca Clifton

2010-2024 NCE

NIH/NHLBI

Title: Pulmonary Complications in a Birth Cohort after a Randomized Trial of Exposure to Antenatal Corticosteroids: the ALPS Follow-Up Study

The goal of this study is to determine whether corticosteroids given to mothers of late pre-term infants lead to a reduction in childhood respiratory illness and improved lung function.

\$1,795,125 (\$99,978 Subaward)

Role: Co-investigator (7.6%)

K24AI114769-10, PI: Elizabeth Matsui

2015-2024*

NIH/NIAID

Title: Mentoring in Patient-Oriented Research on Asthma and the Indoor Environment

The major aim of this project is to extend Dr. Matsui's research program to study outdoor air pollution exposure and health disparities science.

\$945,015

Role: PI (25%)

*Relinquished to manage effort from other sponsored projects.

R01ES029999-05, PI: Nirupama Putcha

2019-2024

NIH

Title: The Home Environment and Re-hospitalization in COPD study (HEAR COPD)

This study seeks to determine the role of the home environment including air pollutants and allergen sensitization/exposure with regards to risk for re-hospitalization in a population of individuals recently hospitalized for COPD exacerbation.

\$669,647 (\$118,523 Subaward)

Role: Co-Investigator (4.6%)

NP22-CERG178, PI: Elizabeth Matsui

2023

National Eczema Association

Title: Childhood Atopic Dermatitis: The Role of Outdoor Air Pollution on Disease Burden and Racial and Ethnic Disparities.

The goal of this study is to 1) determine the contribution of outdoor air pollution to AD prevalence, severity, and persistence, and AD disparities among a racially and ethnically diverse population of non-asthmatic children in Central Texas, and 2) determine the contribution of outdoor air pollution exposure to comorbid asthma+AD and asthma+AD disparities among a racially and ethnically diverse population of children with asthma enrolled in TexHALE.

\$49,959

Role: PI (0%)

College of Natural Sciences Catalyst Grant, PI: Su Yeong Kim

2021-2023 NCE

The University of Texas at Austin

Title: Air Quality, Socio-cultural Stressors, and Health in Latinx Adolescents

The goal of this study is to collect pilot data for future NIH funding resulting in a new interdisciplinary collaboration that focuses on the effects of intersection of both sociocultural and structural (air quality) context on the health of Latinx adolescents, ultimately leading to culturally informed, community-based health promotion efforts to curb the high burden of poor lung health and socio-cultural stress in the Latinx population.

\$50,000

Role: Co-Investigator (0% in-kind)

24812, PI: Phillip Schnarrs

2022

Patient Centered Outcomes Research Institute (PCORI)

Title: The Texas People-centered Research, Intervention Design, and Evaluation in Health Collaborative

The goal of this projects is to build capacity for LGBTQ+ focused patient centered outcomes researchand comparative effectiveness research across Texas.

\$249,990

Role: Co-Investigator (1%)

TXHHU0046-18, PI: Kerry Kinney

2019-2022

Housing of Urban Development (HUD)

Title: Linking Microbial, SVOC and Pro-Inflammatory Exposures in Homes to Childhood Asthma Severity: A Community Filter Forensics Approach

The purpose of this study is to evaluate the relationships between environmental contaminants in home HVAC filter dust and asthma severity and control among children in an urban cohort and to determine how the environmental exposure and health data collected in a Community Filter Forensics campaign in a single urban area (East Austin) compares to conventional, researcher-collected data from in-home visits at the participating households.

\$548,658

Role: Co-investigator (2.5%)

Tito's Handmade Vodka Research Gift, PI: Lauren Meyers

2020-2022

Title: UT Austin COVID-19 Modeling Consortium

This study will support community workers and health professionals on the frontline of the fight against COVID-19 by providing decision-makers with key predictive models necessary for effective decision-making.

\$54,135

Role: Faculty Collaborator (8.33%)

R21ES029607-01, PI: Rachel Miller

2019-2021

NIH/NIAID

Title: Mitochondrial DNA biomarkers to assess responses to changes in personal environmental exposures in pediatric urban asthma

Dr. Matsui and her team will be responsible for ensuring completion of collection of buccal samples and for data management activities related to linking the key variables from the parent study dataset to the buccal sample dataset.

\$48,221 (Hopkins portion)

Role: Co-Investigator (5%)

Michael Susan Dell Foundation, PI: Anjum Khurshid

2019-2020

Title: Social services and health care information platform: Towards creating a comprehensive system of care

The goal is to integrate social determinants of health data into electronic medical records across the safety net clinics.

\$2,028,559

Role: Research & Evaluation Advisor (3.5%)

5R21AI133492, PI: Meghan Davis

2018-2020

NIH/NIAID

Title: The effects of a housing mobility program on home environmental and host airway microbiota and asthma morbidity among low-income minority children

Aims of this study are to 1) assess spatial and temporal determinants, including the effects of moving from a high-poverty urban neighborhood to a low poverty suburban neighborhood, on home and child airway microbiota, and 2) To explore the influence of changes in child airway microbiota on asthma outcomes.

\$455,024

Role: Co-investigator (5%)

K24AI114769-06, PI: Elizabeth Matsui *NCE

2015-2020

NIH/NIAID

Title: Mentoring in Patient Oriented Research on Asthma and the Indoor Environment

Our major aim of this project is to extend Dr. Matsui's research program to study the effects of environmental microbial exposures on asthma.

\$862,914

Role: PI (25%)

R01 ES023447, PI: Elizabeth Matsui

2013-2018

NIH/NIEHS

Title: Environmental Control as Add-on Therapy in Urban Children with Asthma

Our aims are to determine the effect of the addition of ECS to controller medication titration on controller medication requirements and allergic inflammatory biomarkers, and to determine whether reductions in particulate matter (PM) and/or indoor allergens mediate the effects of an ECS on asthma.

\$2,499,682

Role: PI (18%)

N01 AI90052, PI: William Busse

2009-2018

NIH/NIAID

Title: Inner City Asthma Consortium (ICAC)

ICAC's goal is to include further development of cockroach allergen immunotherapy and consideration of new allergen immunotherapies; for example to mouse allergens; the development and execution of clinical and mechanistic studies targeted to inner-city asthma phenotypes, and interventions designed to prevent the incidence of asthma or its progression.

\$1,032,301 (Hopkins portion)

Role: Co-Investigator (5%)

U24OD023382-01, PI: Jacobson/Parker

2016-2018

NIH

Title: Environmental Influences on Child Health Outcomes (ECHODAC)

Data Analysis Center

The JHU/RTI Data Analysis Center will advance ECHO research by providing state-of-the-art study designs and analyses, and by publicizing high quality, well-documented ECHO data to promote informative analyses by the scientific community at-large.

\$4,364,894

Role: Co-investigator (5%)

HUD, PI: David Salkever

2013-2017

HUD

Title: A Cost Benefit Study of Green & Healthy Homes Interventions in Baltimore, MD

\$23,373 (Baltimore site)

Role: Site PI (2%)

U34HL130752, PI: Michelle Eakin

2015-2017

NIH/NHLBI

Title: Statewide Implementation of the Head Start Controls Asthma Program

\$225,000

Role: Co-Investigator (5%)

P50MD010431, PI: Nadia Hansel

2015-2016

NIH/NIMHD

Title: Comparing Urban and Rural Effects of Poverty on COPD (CURE COPD)

\$3,500,000

Role: Director of Data Management and Analysis Core (7%)

P50ES018176, PI: Nadia Hansel

2014-2016

NIH/NIEHS and EPA

Title: Obesity Enhances Susceptibility to Pollutant Effects in Asthma

\$5,999,890

Role: Core Leader, Co-investigator (20%)

R01 ES022607, PI: Nadia Hansel

2013-2016

NIH/NIEHS,

Title: Clinical Trial of Air Cleaners to Improve Indoor Air Quality and COPD Health

\$497,378

Role: Co-Investigator (5%)

R01 AI081845, PI: Elizabeth Matsui, Wayne Shreffler

2010-2015

NIH/NIAID

Title: Mechanisms of Clinical Reactivity and Tolerance to Mouse Allergen

\$2,500,000

Role: Multiple-PI (10%)

U01 AI083238, PI: Elizabeth Matsui

2010-2015

NIH/NIAID

Title: Mouse Allergen and Asthma Intervention Trial

\$6,339,269

Role: PI (30%)

P01 ES018176, PI: Gregory Diette

2009-2015

NIH/NIEHS and EPA

Title: Asthma -DIET

\$1,102,462

Role: Project Leader and Core Leader (22%)

R21 AI101296, PI: Rachel Miller

2012-2014

NIH/NIAID

Title: Mouse Allergen Intervention and DNA Methylation of Asthma Regulatory Genes

\$31,970 (Baltimore site)

Role: Site PI (5%)

P50 ES015903, PI: Patrick Breyse

2007-2012

NIH/NIEHS

Title: Center for Childhood Asthma in the Urban Environment

\$1,500,000

Role: Project Leader and Core Leader (17%)

R34 AI074928, PI: Elizabeth Matsui

2007-2009

NIH/NIAID

Title: Mouse Allergen and Asthma Intervention Trial

\$100,000

Role: PI (15%)

R01 AI070630, PI: Elizabeth Matsui

2006-2011

NIH/NIAID

Title: Mouse Allergen and Inner-city Asthma

\$1,250,000

Role: PI (20%)

R03 AI062974, PI: Beverly Paigen

2005-2007

NIH/NIAID,

Title: Mouse Allergen-Specific IgG as a Biomarker of Exposure

\$100,000

Role: Co-Investigator (20%)

K23 AI060955, PI: Elizabeth Matsui

2005-2010

NIH/NIAID

Title: Mentored Patient-Oriented Career Development Award (K23)

\$623,570

Role: PI (80%)

AAAAI, PI: Elizabeth Matsui

2005

AAAAI Interest Section Award

\$20,000

Role: PI (20%)

Johns Hopkins School of Medicine, PI: Elizabeth Matsui

2004-2005

Johns Hopkins Clinician Scientist Award

\$65,000

Role: PI (70%)

P01 ES009606, PI: Patrick Breyse

2003-2009

NIH/NIEHS and EPA

Title: Center for Childhood Asthma in the Urban Environment

\$1,102,462

Role: Co-investigator, Core Leader (20%)

N01 AI25496, PI: William Busse

2002-2009

NIH/NIAID

Title: Inner City Asthma Consortium (ICAC)

\$6,384,872

Role: Co-investigator (5%)

Eudowood Board Johns Hopkins School of Medicine, PI: Elizabeth Matsui 2002-2003

Bauernschmidt Fund

\$35,000

Role: PI (effort NA/Fellow Award)

AAAAI, PI: Elizabeth Matsui 2002-2003

President's Grant-in-Aid Award

\$30,000

Role: PI (effort NA/Fellow Award)

Other Research Activities and Clinical and Quality Improvements Projects

Member, Johns Hopkins Department of Pediatrics: Medical Quality and Safety Committee 2016-2018

Director, Johns Hopkins Division of Pediatric Allergy/Immunology QI Project 2013-2018

Publications

Peer-reviewed publications

1. Grant TL, Roberts Lavigne LC, Pollack CE, Cimbalic P, Balcer-Whaley S, Peng RD, **Matsui EC**, Keet CA. Moving to lower-poverty neighborhoods offers broad benefits for children with asthma, regardless of sex or other baseline characteristics. *J Allergy Clin Immunol Glob*. 2025 Jan 7;4(2):100402. doi: 10.1016/j.jacig.2025.100402. eCollection 2025 May. PMID: 40008093
2. Chambliss S, La Frinere-Sandoval NQNB, Zigler C, Mueller EJ, Peng RD, Hall EM, **Matsui EC**, Cubbin C. Alignment of Air Pollution Exposure Inequality Metrics with Environmental Justice and Equity Goals in the United States. *Int J Environ Res Public Health*. 2024 Dec 21;21(12):1706. doi: 10.3390/ijerph21121706. PMID: 39767545
3. Micheals K, Bhavnani D, **Matsui EC**. Examining Disparities in Biologic Therapy Initiation: The Intersection of Race/Ethnicity and Insurance Type. *J Allergy Clin Immunol*. 2025 Jan 4:S0091-6749(25)00002-8. doi: 10.1016/j.jaci.2025.01.002. Epub ahead of print. PMID: 39761796.
4. Rodríguez EM, Westcott S, Calderón MPY, Horner SD, **Matsui EC**, Dillard J, Fareed H, Camacho J. Study protocol for a randomized controlled trial of Adapt 2 Asthma (A2A), a culturally relevant coping skills and asthma management intervention for Latinx Families. *Trials*. 2024 Oct 22;25(1):706. doi: 10.1186/s13063-024-08531-w. PMID: 39438915; PMCID: PMC11495093.
5. Fandiño-Del-Rio M, Tore G, Peng RD, Meeker JD, **Matsui EC**, Quirós-Alcalá L. Characterization of pesticide exposures and their associations with asthma morbidity in a predominantly low-income urban pediatric cohort in Baltimore City. *Environ Res*. 2024 Dec 15;263(Pt 2):120096. doi: 10.1016/j.envres.2024.120096. Epub 2024 Oct 2. PMID: 39362457.
6. Lovinsky-Desir S, Riley IL, Bryant-Stephens T, De Keyser H, Forno E, Kozik AJ, Louisias M, **Matsui EC**, Sheares BJ, Thakur N, Apter AJ, Beck AF, Bentley-Edwards KL, Berkowitz C, Braxton C, Dean J, Jones

CP, Koinis-Mitchell D, Okelo SO, Taylor-Cousar JL, Teach SJ, Wechsler ME, Gaffin JM, Federico MJ. Research Priorities in Pediatric Asthma Morbidity: Addressing the Impacts of Systemic Racism on Children with Asthma in the United States. An Official American Thoracic Society Workshop Report. *Ann Am Thorac Soc*. 2024 Oct;21(10):1349-1364. doi: 10.1513/AnnalsATS.202407-767ST. PMID: 39352175; PMCID: PMC11451894.

7. Bhavnani D, Lilley T, Rathouz PJ, Beaudenon-Huibregtse S, Davis MF, McCormack MC, Keet CA, Balcer-Whaley S, Newman M, **Matsui EC**. Indoor allergen exposure and its association to upper respiratory infections and pulmonary outcomes among children with asthma. *J Allergy Clin Immunol*. 2024 Aug 19:S0091-6749(24)00827-3. doi: 10.1016/j.jaci.2024.08.006. Epub ahead of print. PMID: 39168187.
8. Fandiño-Del-Rio M, **Matsui EC**, Calafat AM, Koehl R, Botelho JC, Woo H, Boyle M, Hansel NN, McCormack M, Quirós-Alcalá L. Recent use of consumer and personal care products and exposures to select endocrine disrupting chemicals among urban children with asthma. *J Expo Sci Environ Epidemiol*. 2024 Jun 18. doi: 10.1038/s41370-024-00693-8. Epub ahead of print. PMID: 38890543.
9. Udemgba C, Burbank AJ, Gleeson P, Davis CM, **Matsui EC**, Mosnaim G. Factors Affecting Adherence in Allergic Disorders and Strategies for Improvement. *J Allergy Clin Immunol Pract*. 2024 Jun 13:S2213-2198(24)00632-9. doi: 10.1016/j.jaip.2024.06.008. Epub ahead of print. PMID: 38878860.
10. Zárate RA, Bhavnani D, Chambliss S, Hall EM, Zigler C, Cubbin C, Wilkinson M, **Matsui EC**. Neighborhood-level variability in asthma-related emergency department visits in Central Texas. *J Allergy Clin Immunol*. 2024 Jun 6:S0091-6749(24)00568-2. doi: 10.1016/j.jaci.2024.05.024. Epub ahead of print. PMID: 38851399.
11. Katz DSW, Zigler CM, Bhavnani D, Balcer-Whaley S, **Matsui EC**. Pollen and viruses contribute to spatio-temporal variation in asthma-related emergency department visits. *Environ Res*. 2024 Jun 3;257:119346. doi: 10.1016/j.envres.2024.119346. Epub ahead of print. PMID: 38838752.
12. Mahdavinia M, Poole JA, Apter AJ, Pacheco SE, Pappalardo AA, **Matsui EC**, Davis CM, Bernstein JA. Volunteerism Addressing Environmental Disparities in Allergy (VAEDIA): The presidential initiative to combat environmental injustice in allergy and immunology-a Work Group Report of the AAAAI VAEDIA task force. *J Allergy Clin Immunol*. 2024 May 22:S0091-6749(24)00414-7. doi: 10.1016/j.jaci.2024.04.012. Epub ahead of print. PMID: 38795076.
13. Chambliss SE, **Matsui EC**, Zárate RA, Zigler CM. The Role of Neighborhood Air Pollution in Disparate Racial and Ethnic Asthma Acute Care Use. *Am J Respir Crit Care Med*. 2024 Feb 27. doi: 10.1164/rccm.202307-1185OC. Epub ahead of print. PMID: 38412262.
14. Miller RL, Rivera J, Lichtiger L, Govindarajulu US, Jung KH, Lovinsky-Desir S, Perera F, Balcer Whaley S, Newman M, Grant TL, McCormack M, Perzanowski M, **Matsui EC**. Associations between mitochondrial biomarkers, urban residential exposures and childhood asthma outcomes over 6 months. *Environ Res*. 2023 Dec 15;239(Pt 1):117342. doi: 10.1016/j.envres.2023.117342. Epub 2023 Oct 9. PMID: 37813137.
15. Novick TK, Mader MJ, Johansen KL, **Matsui EC**, Montgomery E, Jacobs EA, Crews DC. Unstable Housing and Mortality Among US Veterans Receiving Dialysis. *JAMA Netw Open*. 2023 Nov 1;6(11):e2344448. doi: 10.1001/jamanetworkopen.2023.44448. PMID: 37988075; PMCID: PMC10663965.

16. Croce EA, Parast L, Bhavnani D, **Matsui EC**. Lower socioeconomic status may help explain racial disparities in asthma and atopic dermatitis prevalence: A mediation analysis. *J Allergy Clin Immunol*. 2023 Nov 22:S0091-6749(23)01473-2. doi: 10.1016/j.jaci.2023.11.013. Epub ahead of print. PMID: 37995856.
17. Bhavnani D, Wilkinson M, Chambliss SE, Croce EA, Rathouz PJ, **Matsui EC**. Racial and ethnic identity and vulnerability to upper respiratory viral infections among children in the US. *J Infect Dis*. 2023 Oct 20:jiad459. doi: 10.1093/infdis/jiad459. Epub ahead of print. PMID: 37863043.
18. Pollack CE, Roberts LC, Peng RD, Cimbalic P, Judy D, Balcer-Whaley S, Grant T, Rule A, Deluca S, Davis MF, Wright RJ, Keet CA, **Matsui EC**. Association of a Housing Mobility Program With Childhood Asthma Symptoms and Exacerbations. *JAMA*. 2023 May 16;329(19):1671-1681. doi: 10.1001/jama.2023.6488. PMID: 37191703
19. Burbank AJ, Hernandez ML, Jefferson A, Perry TT, Phipatanakul W, Poole J, **Matsui EC**. Environmental justice and allergic disease: A Work Group Report of the AAAAI Environmental Exposure and Respiratory Health Committee and the Diversity, Equity and Inclusion Committee. *J Allergy Clin Immunol*. 2022 Dec 28:S0091-6749(22)02555-6. doi: 10.1016/j.jaci.2022.11.025. Online ahead of print. PMID: 36584926
20. Kim SY, **Matsui EC**, Wen W, Tse HW, Chambliss SE. Demographic and Psychosocial Characteristics, Air Pollution Exposure, and Housing Mobility of Mexican Immigrant Families. *J Racial Ethn Health Disparities*. 2022 Dec 13. doi: 10.1007/s40615-022-01473-6. Online ahead of print. PMID: 36512313
21. Bhavnani D, Wilkinson M, Zárate RA, Balcer-Whaley S, Katz DSW, Rathouz PJ, **Matsui EC**. Do upper respiratory viruses contribute to racial and ethnic disparities in emergency department visits for asthma? *J Allergy Clin Immunol*. 2022 Nov 16:S0091-6749(22)01513-5. doi: 10.1016/j.jaci.2022.10.031. Online ahead of print. PMID: 36400176
22. Grant T, Lilley T, McCormack MC, Rathouz PJ, Peng R, Keet CA, Rule A, Davis M, Balcer-Whaley S, Newman M, **Matsui EC**. Indoor environmental exposures and obstructive lung disease phenotypes among asthmatic children living in poor, urban neighborhoods. *J Allergy Clin Immunol*. 2022 Nov 14:S0091-6749(22)01515-9. doi: 10.1016/j.jaci.2022.08.032. Online ahead of print. PMID: 36395986
23. Shipp CL, Gergen PJ, Gern JE, **Matsui EC**, Guilbert TW. Asthma Management in Children. *J Allergy Clin Immunol Pract*. 2022 Nov 9:S2213-2198(22)01133-3. doi: 10.1016/j.jaip.2022.10.031. Online ahead of print. PMID: 36334702
24. Gold DR, Bryant-Stephens T, **Matsui EC**, Kahlor LE. Housing-based Inequities in Microbial Exposure and Respiratory Infection Risk. *The Bridge* 52(3). 2022 Sept 13.
25. Croce EA, Rathouz PJ, Lopes FCPS, Leszczynska M, Diaz LZ, Levy ML, Ruth JS, Varshney P, Rew L, **Matsui EC**. Caregiver Preferences and Barriers Toward Accessing Pediatric Dermatology Care for Childhood Atopic Dermatitis. *J Pediatr Health Care*. 2022 Jul-Aug;36(4):e1-e5. doi: 10.1016/j.pedhc.2022.04.003. Epub 2022 May 5. PMID: 35527176
26. Grant TL, McCormack MC, Peng RD, Keet CA, Rule AM, Davis MF, Newman M, Balcer-Whaley S, **Matsui EC**. Comprehensive home environmental intervention did not reduce allergen concentrations or controller medication requirements among children in Baltimore. *J Asthma*. 2022 Jun 3:1-10. doi: 10.1080/02770903.2022.2083634. Online ahead of print. PMID: 35657971

27. Fandiño-Del-Rio M, **Matsui EC**, Peng RD, Meeker JD, Quirós-Alcalá L. Phthalate biomarkers and associations with respiratory symptoms and healthcare utilization among low-income urban children with asthma. *Environ Res.* 2022 Apr 8;212(Pt B):113239. doi: 10.1016/j.envres.2022.113239. Online ahead of print. PMID: 35405131
 28. Croce EA, Rathouz PJ, Lopes FCPS, Leszczynska M, Diaz LZ, Levy ML, Ruth JS, Varshney P, Rew L, **Matsui EC**. Validation of remote atopic dermatitis severity assessment with the Eczema Area and Severity Index in children using caregiver-provided photos and videos. *Pediatr Dermatol.* 2022 May 6. doi: 10.1111/pde.15003. Online ahead of print. PMID: 35522088
 29. Warren CM, Brown E, Wang J, **Matsui EC**. Increasing Representation of Historically Marginalized Populations in Allergy, Asthma, and Immunologic Research Studies: Challenges and Opportunities. *J Allergy Clin Immunol Pract.* 2022 Apr;10(4):929-935. doi: 10.1016/j.jaip.2022.01.014. Epub 2022 Jan 25. PMID: 35091119
 30. Cahill AG, Olshavsky ME, Newport DJ, Benzer J, Chambers KM, Custer J, Rathouz PJ, Nutt S, Jwaied S, Leslie R, **Matsui EC**. Occupational Risk Factors and Mental Health Among Frontline Health Care Workers in a Large US Metropolitan Area During the COVID-19 Pandemic. *Prim Care Companion CNS Disord.* 2022 Mar 8;24(2):21m03166. doi: 10.4088/PCC.21m03166. PMID: 35276759
 31. Elliott T, **Matsui EC**, Cahill A, Smith L, Leibner L. Conducting a Professional Telemedicine Visit Using High-Quality Webside Manner. *Curr Allergy Asthma Rep.* 2022 Feb;22(2):7-12. doi: 10.1007/s11882-022-01029-y. Epub 2022 Jan 24. PMID: 35072928
 32. Putcha N, Woo H, McCormack MC, Fawzy A, Romero K, Davis MF, Wise RA, Diette GB, Koehler K, **Matsui EC**, Hansel NN. Home Dust Allergen Exposure Is Associated with Outcomes among Sensitized Individuals with Chronic Obstructive Pulmonary Disease. *Am J Respir Crit Care Med.* 2022 Feb 15;205(4):412-420. doi: 10.1164/rccm.202103-0583OC. PMID: 34752729
 33. Croce EA, Levy ML, Adamson AS, **Matsui EC**. Reframing racial and ethnic disparities in atopic dermatitis in Black and Latinx populations. *J Allergy Clin Immunol.* 2021 Nov;148(5):1104-1111. doi: 10.1016/j.jaci.2021.09.015. PMID: 34600773
 34. Grant T, Croce E, **Matsui E**. Asthma and the social determinants of health. *Ann Allergy Asthma Immunol.* 2021 Oct 18:S1081-1206(21)01132-7. doi: 10.1016/j.anai.2021.10.002. Online ahead of print. PMID: 34673220.
 35. Rodríguez EM, Pollack CE, Keet C, Peng RD, Balcer-Whaley S, Custer J, Cimbalic P, **Matsui EC**. Neighborhoods, caregiver stress, and children's asthma symptoms. *J Allergy Clin Immunol Pract.* 2021. Oct 6:S2213-2198(21)01059-X. doi: 10.1016/j.jaip.2021.08.043. Online ahead of print. PMID: 34626856
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 37. Raley E, Quiros-Alcala L, **Matsui EC**. Chemical exposures via personal care products and the disproportionate asthma burden among the US Black population. *J Allergy Clin Immunol Pract.* 2021 Sep;9(9):3290-3292. doi: 10.1016/j.jaip.2021.04.063. PMID: 33975033
- Sadreameli SC, Ahmed A, Curtin-Brosnan J, Perzanowski MS, Phipatanakul W, Balcer-Whaley S, Divjan A, Peng RD, Newman M, Cunningham A, Bollinger ME, Wise RA, Miller RL, **Matsui EC**. Indoor

Environmental Factors May Modify the Response to Mouse Allergen Reduction Among Mouse-Sensitized and Exposed Children with Persistent Asthma. *J Allergy Clin Immunol Pract.* 2021 Sep 8:S2213-2198(21)00981-8. doi: 10.1016/j.jaip.2021.08.031. Online ahead of print. PMID: 34506964

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Retracted due to error in the administrative health data set. Data error corrected and published as new manuscript (Zárate RA, et al. Neighborhood-level variability in asthma-related emergency department visits in Central Texas. *J Allergy Clin Immunol.* 2024 Jun 6:S0091-6749(24)00568-2. doi: 10.1016/j.jaci.2024.05.024. Epub ahead of print. PMID: 38851399.)
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SPIROMICS and COPD Gene. Chest. 2020 Dec;158(6):2333-2345. doi: 10.1016/j.chest.2020.04.069. Epub 2020 May 23. PMID: 32450244

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Editorials

1. Bhavnani D, **Matsui EC**. A Community-Based Participatory Research Approach to Understanding Childhood Asthma in the Navajo Nation. J Allergy Clin Immunol Pract. 2024 Aug;12(8):2176-2177. doi: 10.1016/j.jaip.2024.05.040. PMID: 39122333.
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Letters, Correspondence

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Books & Chapters

1. **Matsui EC**, Perzanowski M, Platts-Mills TAE, “Indoor Allergens” in: Middleton’s Allergy: Principles and Practice. Philadelphia, Mosby Inc. Under review.
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Non-print/Online Materials/Other

1. National Academies of Sciences, Engineering, and Medicine. 2024. Health Risks of Indoor Exposure to Fine Particulate Matter and Practical Mitigation Solutions. Washington, DC: The National Academies Press. <https://doi.org/10.17226/27341>
2. Peng RD and **Matsui EC**. The Art of Data Science. 2016. <https://leanpub.com/artofdatascience>

Podcasts

1. Clinicians, Kids, and the Changing Climate. Episode 3, Air quality and respiratory health. November 2023. <https://www.listennotes.com/podcasts/clinicians-kids/episode-3-air-quality-and-NQu03w7UaDx/>
2. Matsui EC. “Child Health and Advocacy Workshop on Health Disparities & Racism.” 2021. Dell Medical School Pediatrics, The University of Texas at Austin.
3. Matsui EC. Cancer Uncovered. “Vaccines and COVID 19.” 2020. Livestrong Cancer Institutes, The University of Texas at Austin.
4. Emily C. Webber and Matsui EC. Pediatrics On Call. Episode 32, “Understanding the EHR, Building an Anti-racist Framework in Research.” 2020. American Academy of Pediatrics.
5. Matsui EC. PedsAdmit. “Academic Medicine.” December 14, 2020.
6. Matsui EC. Public Health On Call Guest Appearance. “COVID 19 and Aerosol Transmission.” 2020. John Hopkins Bloomberg School of Public Health.
7. Peng RD and Matsui EC. Co-host, The Effort Report. 2016-Present. <https://effortreport.libsyn.com/>.

Editorial Responsibilities

Journal of Allergy and Clinical Immunology	2007-2013
Reviewer Board	2007-2008
Editorial Board	2008-2013, 2016-2021
Guest Editor, Theme Issue, “Indoor Environment”	2024
Journal of Allergy and Clinical Immunology: In Practice	
Editorial Board	2019-2028
Guest Editor, Theme Issue “Prevention of Allergy and Asthma”	2024

Journal Ad hoc Reviewer for:

Allergy

American Journal of Respiratory and Critical Care Medicine

Annals of Asthma, Allergy, and Immunology

Clinical and Experimental Allergy

Environmental Health Perspectives

European Respiratory Journal
Indoor Air
International Archives of Allergy and Immunology
Journal of Allergy and Clinical Immunology
JACI In Practice
Journal of the American Medical Association
Journal of the American Association for Laboratory Animal Science
Medicine
Pediatric Pulmonology
Pediatrics

Advisory Committees/Data Safety Monitoring Boards

External Advisory Committee, Children's Allergy and Asthma Data Repository (CADRE)	2025-
UT San Antonio CTSA KL2 Internal/External Advisory Committee	2025-
Health Risks of Indoor Exposures to Fine Particulate Matter and Practical Mitigation Solutions Committee, National Academies of Sciences, Engineering, and Medicine	2021-2023
Chair, Data Safety Monitoring Board (DSMB) of Asthma CHAMPS (R61 HL 157845), Johns Hopkins University School of Medicine	2021-Present
Committee Member, Childhood Asthma in Urban Settings Network/External Scientific Advisory Group (CAUSE ESAG)	2021-Present
Stakeholder Advisory Panel (SAP), UNC Gillings School of Global Public Health	2021-2023
Planning Committee Member, Indoor Exposure To Fine Particulate Matter And Practical Mitigation Approaches Workshop, National Academy of Engineering	2020-2021
National Academies of Sciences, Engineering, and Medicine's Standing Committee on Medical and Epidemiological Aspects of Air Pollution on U.S. Government Employees and their Families	2017-2021
Pediatric Research using Integrated Sensor Monitoring Systems (PRISMS) Program Independent Experts Committee (IEC), NIH	2016-2019
Technical Expert Panel, AHRQ Evidence-based Practice Center report, "Non-pharmacologic Management of Asthma."	2016-2017
ALPS Trial Follow-up Study External Advisory Board	2015-2016
EPA, Expert Panel: Outcomes of Epidemiologic Studies of Allergy	2014
NIEHS, Expert Panel: Identifying Research Needs for Assessing Safe Use of High Intakes of Folic Acid	2014-2015

Expert Advisory Panel, Institute of Medicine Food Allergen Planning Meeting	2014
Expert Advisory Panel, Green and Healthy Homes Initiative	2013
US Environmental Protection Agency, Scientific Advisory Board	2012-2015
Joint Task Force on Practice Parameters, Indoor Allergens and Allergic Diseases Work Group	2011-2012
Committee Member, NIH Asthma Outcomes Workshop	2010-2012
Member, DSMB for Peanut Sublingual and Oral Immunotherapy, PI: Wood	2010-2014
Chair, DSMB for Durability of Hypertonic Saline for Enhancing Mucociliary Clearance in Cystic Fibrosis, PI: Laube	2010-2011
Chair, DSMB for ETS Head Start Intervention Study, PI: Rand	2009-2014

Review Groups/Study Sections/Session Organizer, Chair

Reviewer, K12 Mentored Research Career Development CTSA Program	2023-2024
NIAID SEP U01/UM1 Childhood Asthma in Urban Settings Clinical Research Network	11/2020
Ad-hoc reviewer, NIH P01 RFA on Chronic Rhinosinusitis	04/2019
American Lung Association Airways Clinical Research Centers Review Committee	2016
NIEHS Environmental Health Sciences Review Committee	2012-2017
NIH Indoor Environment and Childhood Asthma Workshop, Co-Chair	2014
German Research Foundation	2012
NIH SEP DAIT ZAI1-LGR-I-S2 R34/U01 Clinical Trial Awards	2012
Netherlands Asthma Foundation	2012
NIH SEP ZAI1-BDP-I-C1 Clinical Site Monitoring Centers	2011
The Thrasher Foundation	2010
NIH Special Emphasis Panel/Scientific Review Group Member	2009-2010
Donaghue Foundation	2008
NIOSH NORA Intramural Program Project, Program Reviewer	2004

Invited Presentations

International

Air Quality and Health Workshop 2024 Vancouver, British Columbia	03/2024
Plenary talk in Indoor Air 2022 Kuopio, Finland - International Society of Indoor Air Quality and Climate (ISIAQ)	06/2022
TecSalud Summit UT-EMCS, Monterrey, Mexico	01/2019

Gordon Research Conference, Microbiome of the Built Environment	07/2018
European Respiratory Society Annual Meeting Milan, Italy	09/2017
European Academy of Allergy, Asthma and Immunology Annual Meeting Vienna, Austria	06/2016
International Furry Animal Allergen Workshop Uppsala, Sweden	12/2012
5 th Mites Asthma Domestic Design Conference Sydney, Australia	11/2012
4 th International Workshop on Indoor Allergens Aspen, CO	09/2007
National	
"The Air We Breathe: Neighborhoods as Major Determinants of Asthma Risk," Department of Internal Medicine Grand Rounds, University of Michigan, Ann Arbor, MI	05/2025
"The Air We Breathe: Neighborhoods as Major Determinants of Asthma Risk," Massachusetts General Hospital Allergy and Immunology Grand Rounds Virtual	05/2025
"The Air We Breathe: Neighborhoods as Major Determinants of Asthma Risk," Eosinophilic Disorders Conference University of Colorado Department of Pediatrics, Denver Children's Hospital	04/2025
"The Air We Breathe: Neighborhoods as Major Determinants of Asthma Risk," National Institute of Allergy and Infectious Diseases, Grand Rounds, Bethesda, MD	01/2025
"How Climate Change Is Impacting Allergies and Asthma": American Academy of Pediatrics, National Conference & Exhibition, Orlando, FL	09/2024
AAAAI Faculty Development Program, Milwaukee, WI	09/2024
"Social Determinants of Health: Housing Discrimination and Asthma Morbidity Disparities," National Medical Association, New York, NY	08/2024
62 nd Swineford Allergy Conference, University of Virginia	04/2024
"Understanding and Addressing Disparities in Asthma and Allergic Diseases Research," National Institute of Allergy and Infectious Diseases, Rockville, MD.	12/2023
"Improvements in Asthma as Children Move to Opportunity Neighborhoods: Insights from the Mobility Asthma Project," NIH- Asthma Disparities Subcommittee of the	07/2023
President's Task Force on Environmental Health Risks and Safety Risks to Children	06/2023
"Improvements in Asthma as Children Move to Opportunity Neighborhoods: Insights from the Mobility Asthma Project," NIH-HUD Health and Housing Quarterly Virtual Meeting	

Virtual Brown Bag Seminar with Johns Hopkins and Baltimore Regional Partnership, "Improvements in Asthma as Children Move to Opportunity Neighborhoods: Insights from the Mobility Asthma Project," Office of Lead Hazard Control & Healthy Homes, US Department of Housing and Urban Development	03/2023
American Academy Pediatrics (AAP) National Conference & Exhibit, Anaheim, CA	10/2022
American Thoracic Society Workshop: "Research Priorities in Pediatric Asthma Morbidity: Addressing the Impact Systemic Racism on Children with Asthma In the United States," Virtual	08/2022
Annual Southeastern Pediatric Research Conference, Atlanta, Georgia, Emory Univ	06/2022
American Thoracic Society (ATS) Symposium, Virtual	05/2022
Michael & Susan Dell Center for Health Living Webinar, The University of Texas at Austin	01/2022
Faculty, National Jewish 17th Annual Young Investigators Virtual Forum	10/2021
Virtual Pediatrics Grand Rounds, "Asthma Disparities: At the Intersection of Place, History, and Environment," NYU Grossman School of Medicine	07/2021
Virtual Pediatric Grand Rounds, "Asthma Disparities: At the Intersection of Place, History, and Environment," Yale School of Medicine, New Haven, CT	03/2021
HealthyChildren.org parent webinar on asthma: "Breathe Easier: Expert Advice on Managing Your Child's Asthma"	6/2021
ATS Virtual Symposium 2021: Where Evidence Meets Advocacy: The Scientific Basis of Pediatric Respiratory Health Policy, "Wielding scientific evidence about housing and asthma to advocate for patients, families, and communities." New York, NY	5/2021
Pediatric Pulmonary Allergy Immunology and Sleep Medicine Science Seminar Yale School of Medicine, Yale University, New Haven, CT	12/2020
New York Allergy and Asthma Society Teaching Day, Wiell Medical College of Cornell University, New York, NY	07/2020
NIEHS Center Seminar Speaker Series, University of Southern California, Los Angeles, CA	06/2020
Microbiology of the Built Environment, Banbury Center, Lloyd Harbor, NY	11/2019
Allergy/Immunology Grand Rounds NYU Winthrop, Mineola, NY	10/2019
AAAAI Faculty Development Program, Chaska, MN	08/2019
Allergy/Immunology Grand Rounds UPMC, Rochester, NY	04/2019
Pediatric Grand Rounds, Vanderbilt University, Nashville, TN	01/2019
FDA - US Food and Drug Administration	12/2018
Faculty, AAAAI School of Hypersensitivity, North Carolina	08/2018
Keynote Speaker, Connecticut Hospital Association A Closer Look at Asthma: Innovation and Strategies for the Future	05/2018

National League of Cities Forum, Baltimore, MD	07/2017
Moffitt Cancer Center Junior Researcher Retreat Tampa, FL	03/2017
Pediatric Academic Societies Annual Meeting Baltimore, MD	05/2016
Healthy Homes Seminar United States Department of Housing and Urban Development, Washington, DC	04/2016
Pediatric Grand Rounds Vanderbilt University School of Medicine Nashville, TN	2015
Pulmonary Grand Rounds University of Pennsylvania, Philadelphia, PA	09/2014
Boston City-Wide Allergy Immunology Rounds Boston, MA	03/2014
Pediatric Grand Rounds Hackensack University Medical Center, Hackensack, NJ	11/2012
12th International Conference on Indoor Air Quality and Climate, Austin, TX	06/2011
Health Effects of Indoor Allergens, Mold and Endotoxin: Theory and Practice, Indoor Biotechnologies, Charlottesville, VA	04/2011
Panelist, Understanding NIH Grants Webinar, AAAAI/NAIA	12/2009
Allergy and Immunology Grand Rounds, Mount Sinai Medical Center, New York, NY	09/2008
Grand Rounds, Department of Pediatrics, Columbia University, New York, NY	09/2008
National Healthy Homes Conference, Baltimore, MD	09/2008
Faculty, Indoor Biotechnologies Indoor Allergens Course Charlottesville, VA	09/2008
Faculty, School in Hypersensitivity & Allergic Diseases Park City, UT	08/2008
Children's Environmental Health Workshop Washington, DC	10/2007
Pediatric Pulmonology Research Conference University of Michigan, Ann Arbor, MI	02/2006
American Industrial Hygiene Conference and Exposition Chicago, IL	2006

Regional

UT Southwestern Pediatrics Grand Rounds, Dallas, Texas	02/2024
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2023 13 th Annual Frontiers in Translational Science Research Day, UT Health San Antonio, Texas	04/2023
Managing Asthma in Disadvantaged Populations, Texas Allergy, Asthma & Immunology Annual Meeting, Hyatt Regency Lost Pines, Texas	04/2023
University of Texas Health Science Center at Houston	11/2018
Maryland Assembly on School-Based Health Care Annual Conference	05/2017
Maryland Assembly on School-Based Health Care Webinar	11/2016

Local

Everything You Wanted To Ask a PI But Never Had a Chance To, Speaker, The University of Texas at Austin	10/2024
Recruitment and Retention Workshop, Speaker, The University of Texas at Austin	08/2024
Climate & Health, Travis County Medical Society Town Hall Series	07/2024
Environmental Health at UT Austin, International Board of Advisors to the President, The University of Texas at Austin	11/2023
NIH Study Section Reviewers Panel Discussion, The Office of the Vice President for Research and Creative Endeavors, The University of Texas at Austin	09/2023
Health Communication Leadership Institute, The University of Texas at Austin	06/2023
Understanding the Kids' Health Impacts of I:35: A Panel Discussion, The Parent's Climate Community	03/2023
Dell Med Healthscape Symposium, The University of Texas at Austin	11/2022
Internal Medicine 2022 CME Conference, The University of Texas at Austin	11/2022
Creating a Healthy Community: It Starts with Us Webinar, The University of Texas at Austin	02/2022
TxCORE Health Services Research Seminar, The University of Texas at Austin	12/2021
Annual School of Human Ecology Lectureship Series, The University of Texas at Austin	11/2021
Clean Air Force's Air Quality Professionals Forum (AQPF), Pflugerville, TX	10/2021
Virtual Annual Research Symposium, Center for Molecular Carcinogenesis and Toxicology, The University of Texas at Austin	09/2021
Virtual Climate Justice Speaker Series, "A Global Overview of Mortality and Morbidity Implications of Climate Change," The University of Texas at Austin	07/2021
Panel Member, GRIT Talks (C.L.E.A.R.). The University of Texas at Austin	02/2021
Keynote Speaker, Virtual 5 th Annual Clinical Neurosciences Resident Research Evening, The University of Texas at Austin	11/2020

Whole Communities Whole Health (WCWH) Social and Environmental Determinants of Health: Science, Public Health, and Advocacy, The University of Texas at Austin	04/2019
Pediatric Research Seminar Series, “Asthma Disparities: At the Intersection of Place, History, and Environment,” DPRI, The University of Texas at Austin	10/2020
Dell Children’s Pediatric Grand Rounds, The University of Texas at Austin	11/2019
Grand Rounds, St. Agnes Hospital, Baltimore, MD	11/2014
Pulmonary/Allergic Diseases Conference Johns Hopkins University, Baltimore, MD	01/2013
Environmental Biostatistics Working Group, Department of Biostatistics Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	04/2013
Welch Center Grand Rounds Johns Hopkins University, Baltimore, MD	04/2012
Translational Science Conference, Department of Environmental Health Sciences Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	04/2011
Grand Rounds, Department of Pediatrics Greater Baltimore Medical Center, Baltimore, MD	09/2008
Public Health Practice Grand Rounds	01/2007
Clinical Research Conference, Division of Pulmonary and Critical Care Medicine Johns Hopkins University, Baltimore, MD	01/2004
Visiting Professorships	
Dr. Kenneth L. Gerson Visiting Professor Lectureship Kentucky College of Medicine, Lexington, KY	2017
Visiting Professor, Vanderbilt University, Nashville, TN Upstate Golisano Children’s Hospital, Syracuse, NY	2011
Visiting Professor, Center for Environmental Health in Northern Manhattan Columbia University, New York	2008
Community Service	
Member, TX DSHS -Texas Asthma Control Collaborative (TACC), Austin, TX	2019-Present
Baltimore Women’s Giving Circle	2016-2017