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**Drexel University Dornsife School of Public Health**  
 Department of Environmental and Occupational Health  
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**STATEMENT of PURPOSE**

My work focuses on the role of ambient air pollution and social stressors on clinical trial treatment efficacy among susceptible populations. My work interweaves environmental epidemiology with pharmacoepidemiology by employing geospatial analysis and novel biostatistics modeling to parse out the impact of *place* on drug efficacy.

**EDUCATION**

PhD	<b>Drexel Dornsife School of Public Health</b> Department of Environmental and Occupational Health Advisor: Jane E. Clougherty, MSc, ScD Dissertation title: <i>Secondary Analysis of Clinical Trial Results to Assess Effect Modification by Environmental and Social Exposure on Treatment Efficacy of AsthmaNet Trial</i>	<b>Exp. April 2024</b> <b>GPA: 3.93/4</b>
MPH	<b>Columbia University Mailman School of Public Health</b> Department of Environmental Health Science Certificate in Molecular Epidemiology	<b>May 2020</b>
BSc. Cum Laude	<b>City College of New York</b> Bachelor of Science in Biology Minor: Chemistry	<b>June 2018</b>

**RESEARCH & PROFESSIONAL EXPERIENCE****Research**

2020- present	<b><i>Doctoral Candidate &amp; GATHER Fellow</i></b> <b><u>Dissertation:</u></b> Secondary Analysis of Clinical Trial Results to Assess Effect Modification by Environmental and Social Exposure on Treatment Efficacy of AsthmaNet Trial <b><u>GATHER Fellow:</u></b> Awarded the GATHER fellowship, a NIMHD Minority Health and Health Disparities Research Training (MHRT) Program (T37). As a trainee, I partner with Dr. Tonatiah Barrientos from Mexico's INSP to work on a study of hospital admissions for asthma and ambient air pollution exposure among Mexican municipalities.	<b>Philadelphia, PA</b>
2018-2020	<b><i>Research Fellow</i></b> <b>Columbia University Mailman School of Public Health</b> Develop a research plan to assess the health of Puerto Rico's population asthma. Collaborate with interprofessional research fellows on health assessment development and implementation. Assist in developing a surveying plan based on the community needs and census data. Conduct surveys and interact with the community to assess pediatric asthma prevalence in San Juan	<b>New York, NY</b>
2017-2018	<b><i>Research Assistant</i></b> <b>Montefiore Medical Center</b> Conducted qualitative research on the effect of traditional and electronic consent forms on Biobank enrollment.	<b>Bronx, NY</b>

Assisted with the data collection process by administering blind study surveys.  
 Recruited participants in Bronx health clinics to participate in a Biobank trial.  
 Assisted with data analysis of electronic consent form effects on trust and material comprehension.

2017-2018      ***Undergraduate Research Fellow***      ***New York, NY***  
**Columbia University Mailman School of Public Health**  
 Selected for a training experience in a NIEHS-funded program to obtain expertise in graduate-level research.  
 Conducted a systematic literature review on cardiovascular disease and epigenetics.  
 Developed a research strategy for a systematic literature review.

### **Teaching and Professional Experience**

2018-2020      ***Administrative Assistant, PrIMER***      ***New York, NY***  
**Columbia Mailman School of Public Health, Environmental Health Sciences**  
 Mentored undergraduate research trainees in the EHS PrIMER program.  
 Designed and co-led weekly professional development workshops for trainees.  
 Created, collected, and analyzed survey data to evaluate program outcomes.

2019-2020      ***Graduate Teaching Assistant***      ***New York, NY***  
**Columbia Mailman School of Public Health, Environmental Health Sciences**  
**Courses:** GIS & Environment, Health, and Justice  
 Developed course materials (i.e., quizzes, exams, and group projects) for the course.  
 Assisted with developing course syllabus and collaborated with instructor on course content.  
 Host teaching office hours to help students with content-related questions.

2015-2017      ***Data Management & Analyst***  
**Mount Sinai Health System**      ***New York, NY***  
 Conducted surveys for the Minority Outreach Recruitment Study to educate on breast and cervical cancer screening and preventive care.  
 Developed support activities to increase adherence to screening guidelines in the Harlem community.  
 Maintained and populated the study database with survey responses, including data entry and quality checks.  
 Taught seminars for the Esperanza y Vida breast and cervical cancer education program.

### **TEACHING EXPERIENCE**

2020 ***Teaching assistant***, Department of Environmental Health Sciences, Columbia University  
 P8371: Public Health GIS (Graduate)

2019 ***Teaching assistant***, Department of Environmental Health Sciences, Columbia University  
 PUBHG4200: Environment, Health, and Justice: concepts and practice (Undergraduate)

### **PUBLICATIONS**

**Gomez, L.**, Kinnee, E. J., Kaufman, J. D., Mauger, D. T., Holguin, F., & Clougherty, J. E. (2022). PM<sub>2.5</sub> and NO<sub>2</sub> as Potential Modifiers of Clinical Trial Results on Asthma Exacerbation and Control. ISEE Conference Abstracts. <https://doi.org/10.1289/isee.2022.P-1238>

**Gomez, L.**, Kinnee, E., Kaufman, J. D., Holguin, F., Young, M. T., & Clougherty, J. E. (2021). Modification of Asthma Clinical Trial Treatment Efficacy by Social and Environmental Exposures. ISEE Conference Abstracts. <https://doi.org/10.1289/isee.2021.O-TO-084>

Navas-Acien, A., Domingo-Relloso, A., Subedi, P., Riffo-Campos, A. L., Xia, R., **Gomez, L.**, Haack, K., Goldsmith, J., Howard, B. V., Best, L. G., Devereux, R., Tauqeer, A., Zhang, Y., Fretts, A. M., Pichler, G., Levy, D., Vasan, R. S., Baccarelli, A. A., Herreros-Martinez, M., ... Cole, S. A. (2021). Blood DNA Methylation and Incident Coronary Heart Disease: Evidence From the Strong Heart Study. *JAMA Cardiology*. <https://doi.org/10.1001/jamacardio.2021.2704>

Navas-Acien Ana, Domingo-Relloso Arce, Tellez-Plaza Maria, **Gomez Lizbeth**, Herreros Miguel, Devereux Richard B, Baccarelli Andrea, Umans Jason G, Howard Barbara, Zhao Jinying, Tang Wan-Yee, Haack Karin, Fallin M. Daniele, & Cole Shelley. (2020). Abstract MP31: Blood DNA Methylation Signatures of Incident Coronary Heart Disease: An Epigenome-wide Analysis in the Strong Heart Study. *Circulation*, 141(Suppl\_1), AMP31–AMP31

## **RESEARCH AND TRAINING AWARDS**

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**2022 – present** NIMNHD 5T37MD014251-04: National Institute on Minority Health and Health Disparities (NIMHD) Minority Health and Health Disparities Research Training Program, through Global Alliance for Training in Health Equity Research grant 5T37MD014251 as a predoctoral fellow. (PI: Dr. Gina Lovasi)

**2020** Mailman School of Public Health EHS Student Award

**2017 – 2018** 1-R25-ES025505-03 grant: "Program to Inspire Minority Undergraduates in Environmental Health Science Research" (PI: Dr. Ana Navas-Acien)

## **ACADEMIC & LEADERSHIP EXPERIENCE**

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### **Relevant Biostatistics, Statistics and Programming Coursework**

Design and analysis of Clinical trials	Bayesian Analysis for Urban Health
Longitudinal Data Analysis	Data Science using R
Generalized Linear Models	Analysis of Environmental Data
Survival Data analysis	Analysis of Categorical data
Intermediate Biostatistics	Research Methods and Applications
Linear Statistical Models	Introduction to Computing
Advanced Analytic Methods	Statistics in Earth and Environment
Applied Regression	Elements of Calculus and Statistics

### **Service**

2022-Present	Public Health Doctoral Student Advisory Group (PHDSAG)
2018-2020	One Health Initiative: Treasurer
2018-2020	Healthcare Data Analytics: Event Coordinator
2018-2020	Columbia IPE Service-Learning Fellowship: Research Fellow
2018-2020	EOH Climate and Health Journal Club: co-founder
2019-2020	R.I.S.E Program: Peer-Mentor

### **Professional Organizations and Societies**

2021 – present	SER member
2020 – present	ISEE member
2017 – present	National Society of Leadership and Success

### **Skills**

Programing: R(Advanced), SAS (Beginner)  
 Productivity: Wordfast, Endnote, Microsoft, and Google Suites  
 Language: Native Spanish, English, Basic French