

RACHEL HANNAH TAO

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EDUCATION

Columbia University, Mailman School of Public Health, New York, USA

Apr 2021 (expected)

Master of Public Health, Epidemiology

GPA: 3.97

Certificate in Applied Biostatistics and Data Science

Dean's Scholarship Merit Award Recipient

Involvement: Teaching Assistant for Applied Regression I (Fall 2020)

Columbia University, Columbia College, New York, USA

May 2016

Bachelor of Arts, Environmental Biology

Thesis: Differences in Water-Use for Plant Species on New York Green Roofs

PUBLIC HEALTH EXPERIENCE

makLab, Department of Environmental Health Sciences

June 2020 - Present

Mentored Research with Marianthi-Anna Kioumourtzoglou, ScD, Assistant Professor

- Aid in development of machine learning methods to assess environmental mixtures as health exposures
- Collaborate with diverse team of epidemiologists, biostatisticians, and computer scientists
- Analysis of EPA air pollution data and emergency department admissions data in NYC using R

Citizen Public Health Literacy (CIPHER)

June 2020 - Present

Community Needs Assessment and Outreach Task Group Member

- Outreach with community-based organizations (CBOs) to address emerging needs from COVID-19
- Workshop grant writing and application strategy with two participating CBOs
- Review online public health curriculum for accuracy and cultural competency

Rutgers Center on Gun Violence Research/Mailman School of Public Health

May 2020- Present

Firearm Storage Mapping Intern

- Create online map of gun storage sites in NY and NJ
- Call gun stores to collect data and ascertain willingness to participate in project
- Data analysis in SAS for policy brief on offsite firearm storage as a harm reduction approach to gun violence

OTHER RELEVANT EXPERIENCE

Division of Pediatric Endocrinology, Diabetes, and Metabolism

May 2017-June 2019

Columbia University Irving Medical Center, New York, USA

Research Assistant and Fellowship Coordinator

- Coordinated study subject visits, maintained data and regulatory information for ongoing research
- Editorial assistance for manuscripts, abstracts, grant proposals (publications list available on request) including collaboration with international partners
- Catalogued evaluations and research of 7 fellows for program outcome reporting to medical education bodies
- Provided support and assistance to clinical staff as a Medical Scribe

Greenbelt Native Plant Center

August-December 2016

New York City Department of Parks and Recreation, New York, USA

Research Assistant and Nursery Worker

- Set up and maintained greenhouse experiment to test water use in plants used on green roofs
- Analyzed data using R to detect species-level differences in water use
- Prepared results in the form of a research report and recommendation to NYC Parks Department

VOLUNTEER AND LEADERSHIP

SISU Mentor, International

August 2020 – Present

Mentor for women in STEM in a newly launched project

Crime Victims Treatment Center, New York, USA

October 2016 – October 2020

Volunteer Rape Crisis and Domestic Violence Counselor at Mount Sinai West and Morningside Emergency Departments

Mentor for Crisis Counselor Trainees

SKILLS & CERTIFICATIONS

Statistical programming languages: R (intermediate+), SAS (intermediate), QGIS (basic), [Git](#) (basic)

Languages: English (fluent), French (intermediate proficiency), Mandarin (basic proficiency)

General: Microsoft Office (Excel, PowerPoint, Word, Teams), Literature Review, Electronic Medical Records