

Rachel Hannah Tao

New York, NY

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EDUCATION

Columbia University, Mailman School of Public Health

Apr 2021 (expected)

Master of Public Health, Epidemiology

GPA: 4.0

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

May 2016

Bachelor of Arts, Environmental Biology

GPA: 3.6

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

PUBLIC HEALTH EXPERIENCE

Research Analyst

June 2020 - Present

Department of Environmental Health Sciences, Mailman School of Public Health

- 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

Community Needs Assessment and Outreach Task Group Member

June 2020 - Present

Citizen Public Health Literacy (CIPHER)

- 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

Firearm Storage Mapping Intern

May 2020- Present

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

- 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

SKILLS

Programming languages and tools: R (intermediate+), SAS (intermediate), QGIS (intermediate), LaTeX (basic), [Git](#) (basic)

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

RELEVANT EXPERIENCE

Research Associate and Fellowship Coordinator

May 2017-June 2019

Department of Pediatrics, Columbia University Irving Medical Center

- Coordinated study subject visits, maintained data and regulatory information for ongoing research
- Editorial assistance for 6 manuscripts, 3 abstracts, and 1 NIH grant proposal
- Documented research accomplishments of 7 fellows for program outcome reporting
- Provided support to clinical staff as a Medical Scribe

Research Analyst

August-December 2016

Greenbelt Native Plant Center, NYC Department of Parks and Recreation

- Designed and managed greenhouse experiment to test water use in plants used on green roofs
- Analyzed data in R to detect species-level differences in water use
- Made recommendations in the form of a research report to NYC Department of Parks and Recreation

VOLUNTEER AND LEADERSHIP

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

PUBLICATIONS (co-author)

Ibañez L, Oberfield SE, Witchel S...**Tao R**, ...Lee PA. An International Consortium Update: Pathophysiology, diagnosis, and treatment of polycystic ovarian syndrome in adolescence. *Horm Res Paediatr*, 2017;[88\(6\):371-395](#).

Oberfield SE, **Tao R**, Witchel SF. Present knowledge on the etiology and treatment of adrenarche. *Pediatric Endocrinol Rev* 2018;[15\(3\):244-254](#).

Witchel SF, Burghard AC, **Tao RH**, Oberfield SE. The diagnosis and treatment of PCOS in adolescents: an update. *Current Opinion* 2019;[31\(4\):562-569](#).

Baer TG, Agarwal S, Chen S, Chiuhan C, Sopher AB, **Tao R**, Hassoun A, Shane E, Fennoy I, Oberfield SE, Vuguin PM. Deficits in bone geometry in growth hormone-deficient prepubertal boys revealed by high-resolution peripheral quantitative computed tomography. *Horm Res Paediatr*, [2019;92\(5\):293-301](#).

Pereira-Eshraghi CF, Chiuhan C, Zhang Y, **Tao RH**, McCann M, Neugut D, Printz A, Fennoy I, Cree-Green M, Oberfield SE, Sopher AB. Obesity and insulin resistance, not polycystic ovary syndrome, are independent predictors of bone mineral density in adolescents and young women. *Horm Res Paediatr*, [2020; 1-7](#).

Weiner A, Cowell A, McMahon DJ, **Tao R**, Zitsman J, Oberfield SE, Fennoy I. The effects of adolescent laparoscopic adjustable gastric band sleeve gastrectomy on markers of bone health and bone turnover. *Clinical Obesity*, [2020](#).

OP-ED

Tao R. Opinion: A side effect of COVID-19 could be weaker civil liberties. [City Limits](#), July 4, 2020.