Rachel Hannah Tao

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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, Chiuzan 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, Chiuzan C, Zhang Y, **Tao RH**, McCann M, Neugut D, Printz A, Fennoy I, Cree-Green M, Oberfied 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.