

Paige E Tomer

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EDUCATION

- 2025 - **Ph.D. Student in Biostatistics**
PRESENT University of Washington, Seattle, WA
- 2020 – 2024 **B.A. (Honors) in Applied Mathematics and Statistics, *summa cum laude***
Macalester College, St. Paul, MN
Cumulative GPA: 3.9; Major GPA: 4.0
Minors: Anthropology, Community and Global Health
Honors Thesis: *An investigation into the causes of home advantage in professional soccer*

RELEVANT WORK EXPERIENCE

RESEARCH FOCUSED:

- 2025 – **Research Assistant**
PRESENT University of Washington, School of Public Health, Department of Biostatistics | Gates Foundation
PI: Jon Wakefield
- Working with Dr. Wakefield and the Space Time Analysis Bayes (STAB) Group to develop and analyze spatial correlation for under-5 mortality rate (U5MR) models using small area estimation and complex survey data from low- and middle-income countries.
- 2024 – 2025 **IRTA Post-Baccalaureate Research Fellow**
National Institute of Environmental Health Sciences (NIEHS) | Epidemiology Branch | Puberty and Cancer Epidemiology Group
PI: Mandy Goldberg; *Branch Chief:* Dale Sandler
- Applied various longitudinal models (i.e. latent class linear mixed models, SITAR, GMM) to identify breast bud growth trajectories in infancy.
 - Assisted Dr. Goldberg with literature reviews and RStudio code development.
 - Acted as Post-Baccalaureate Representative on Fellows Council.

TEACHING FOCUSED:

- 2021- 2023 **Teaching Assistant for Epidemiology (STAT 125)**
Macalester College | Mathematics, Statistics, and Computer Science Department | Fall 2023
Supervisor: Prof. Vittorio Addona
- Primary teaching assistant (of two) in a class of 35 students
 - Assisted in answering questions during class time
 - Held office hours to support students with homework and concepts
 - Graded quizzes and assignments
- Teaching Assistant for Probability (MATH/STAT 354)**
Macalester College | Mathematics, Statistics, and Computer Science Department | Spring 2023

Supervisor: Prof. Vittorio Addona

- Primary teaching assistant (of two) in a class of 25
- Hosted office hours to support students with homework and concepts
- Graded assignments

Math and Economics Tutor

Macalester College | Macalester Academic Excellence Center | 2021 - 2022

Supervisor: Prof. Dave Ehren, Ms. Stephanie Alden

- Tutored peers in Multivariate Calculus II, Multivariate Calculus III, Introduction to Statistics, and Principles of Economics
- Received CRLA Level I Certification

PUBLICATIONS

Tomer, Paige E. “An investigation into the causes of home field advantage in professional soccer.”

Mathematics, Statistics, and Computer Science Honors Projects. 2024. 86.

Available at https://digitalcommons.macalester.edu/mathcs_honors/86/

PUBLICATIONS IN PREPARATION

Tomer PE, Zhao S, Shaw ND, Stallings VA, Kelly A, Rogan WJ, Umbach DM, Goldberg M.

Characterizing postnatal trajectories of breast bud diameter in male and female infants using latent class linear mixed models.

Tomer PE, Umbach DM, Rogan WJ, Goldberg M. Comparison of breast bud diameter measurement techniques in infancy.

Goldberg M, **Tomer PE**, et al. Dietary patterns in adolescence and breast cancer incidence in the Sister Study cohort

Goldberg M, ..., **Tomer PE**, et al. The role of endogenous estrogen in female minipuberty development.

RESEARCH EXPERIENCE

The effectiveness of antipsychotic medications for schizophrenic patients: Perphenazine vs olanzapine |

Columbia University Mailman School of Public Health (under advisement of Dr. Caleb Miles) |

Completed Summer 2023

COVID-19 governmental stringency and the subsequent effect on birth rates | Independent study project,

Leiden University College (under advisement of Dr. Kristin Makszin) | Completed Fall 2022

A better Reimann integral | Macalester College, Real Analysis Final Project | Completed Fall 2023

AWARDS AND CERTIFICATIONS

Kaplan Endowed Prize in Statistics and Data Science | Macalester College | May 2024

Summa Cum Laude | Macalester College | May 2024

Honors in Statistics | Macalester College | May 2024

Dean's List | Macalester College | 2021 – 2024

All-MIAC Academic Honors | Minnesota Intercollegiate Athletic Conference | Fall 2021

College Reading and Learning Association Level 1 | Macalester College | Spring 2022

Vulnerable Subject (Researching Involving Children) Certification | CITI Program | Summer 2024

Good Clinical Practices Certification | CITI Program | Summer 2024

Biomedical 101 Certification | CITI Program | Summer 2024

PRESENTATION EXPERIENCE

Society for Epidemiological Research | Boston MA, June 2025 | *Characterizing postnatal trajectories of breast bud diameter in male and female infants using latent class mixed models* (poster presentation)

Society for Pediatric and Perinatal Epidemiological Research | Boston MA, June 2025 | *Characterizing postnatal trajectories of breast bud diameter in male and female infants using latent class mixed models* (poster presentation)

Post-Baccalaureate Poster Day at the NIH | National Institutes of Health, Bethesda MD | May 2025 | *Characterizing postnatal trajectories of breast diameter in male and female infants using latent class mixed models* (poster presentation)

Honors Defense | Mathematics, Statistics, and Computer Science Department, Macalester College | April 2024 | *An investigation into the causes of home advantage in professional soccer* (oral presentation)

Senior Symposium | Community and Global Health Concentration, Macalester College | April 2024 | *The effectiveness of antipsychotic medications for schizophrenic patients: Perphenazine vs olanzapine* (poster presentation)

Capstone Presentation | Mathematics, Statistics, and Computer Science Department, Macalester College | February 2024 | *Home sweet home: How and why home advantage exists in soccer* (oral presentation)

Summer Research Symposium Poster Presentation | Columbia Mailman School of Public Health | July 2023 | *The effectiveness of antipsychotic medications for schizophrenic patients: Perphenazine vs olanzapine* (poster presentation)

SERVICE

Post-Baccalaureate Representative on Fellows Council | Epidemiology Branch, NIEHS | September 2024 – June 2025

Engagement Committee Member | Epidemiology Branch, NIEHS | June 2024 – June 2025

Co-Chair and Founding Member of the Mathematics, Statistics, and Computer Science Department's Student Advisory Board | Macalester College | September 2022 – May 2024

Hospice Companion Volunteer | Our Lady of Peace Hospice | January 2024 – May 2024

Math Outreach Volunteer | Hidden River Middle School | January 2023 – May 2023