

JUSTIN TOMPKINS

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Los Angeles County 91024
USA

EDUCATION

UNIVERSITY OF COLORADO DENVER Denver, CO, 08/18-01/21; 01/23-08/23
Ph.D. Health and Behavioral Sciences – *Withdrew in Good Standing*

UNIVERSITY OF MICHIGAN Ann Arbor, MI, 04/16
M.S.E. Mechanical Engineering (Applied Mathematics & Engineering Design)

MOREHOUSE COLLEGE Atlanta, GA, 05/13
B.S. Mathematics

TECHNICAL SKILLS

Languages –SQL, Python, HTML/CSS

Software / OS – Power BI, Excel, STATA, SAS, SPSS, Word, PowerPoint, PC, Mac

PROJECTS

Portfolio: j-tompkins.github.io

Excel, Power BI – *Analysis of Global Country-Level Health Indicators*

- Skills: *data cleaning*; data visualization; dashboards; pivot tables

SQL, Power BI – *Analysis of WideWorldImporters Data (in progress)*

- Skills: querying; data visualization; dashboards; aggregate functions; subqueries; group level summary statistics

Python – *Analysis of Diagnoses of Mental and Behavioral Health in California (in progress)*

- Skills: *pandas*; *matplotlib*; statistical analysis; data visualization

Python, QGIS – *Mapping Aquatic Native Species Richness in California (in progress)*

- Skills: *geopandas*; *folium*; *matplotlib*; statistical analysis; data visualization; overlays

RELEVANT COURSEWORK / WORKSHOPS

Survival and Longitudinal Data Analysis (using SAS); ICPSR Summer Program: Regression Analysis II – Linear Models; Analysis of Genomic Data using R and Bioconductor, Github; Research Design Methods in Health and Behavioral Sciences (HBSC) I, Quantitative Methods in HBSC I (SPSS); Quantitative Methods in HBSC II (STATA);

PUBLICATIONS

Boylan, J. M., Tompkins, J. L., & Krueger, P. M. (2022). Psychological well-being, education, and mortality. *Health Psychology*, 41(3), 225.

EXPERIENCE

Consultant Irvine, CA 05/25-present

Language Variation and Success (LVAS) Laboratory – Univ. of California Irvine

- Designed a database using Microsoft Access containing 13 tables of demographic and test score data
- Led meetings with laboratory directors and stakeholders to define expectations and identify key requirements for database design
- Designed and led SQL workshops for laboratory members to introduce basic database principles and querying techniques
- Limited multi-user access by splitting the database into front-end and back-end components

Tutor Sierra Madre, CA 09/24-present

Mathematics Tutor

- Taught concepts in algebra, geometry and statistics to middle school, high school, and college students
- Created plans for each student based on academic goals and deadlines, such as tests and project due dates
- Assisted students with study skills and college readiness, including entrance exam and application preparation

California State University Summer Algebra Institute Irvine, CA 05/24-07/24

Site Leader

- Managed summer program operations and curriculum development
- Analyzed student data to develop curriculum and academic plans for middle and high school students
- Taught students to leverage data and mathematical principles, enabling students to develop data-driven business plans

University of Colorado Denver- Public Health Denver, CO, 08/18-08/23

Teaching Assistant - Introduction to Epidemiology

- Led weekly recitations for 25 undergraduate Epidemiology students
- Using course data, developed a 4-module preparatory course for incoming students to increase student pass rates
- Led lectures on topics in public health, including early life determinants of health and finding public health measures using population level data

University of Colorado Denver Denver, CO, 4/19-05/22

Research Assistant - Education, Psychological Wellbeing, and Prospective Mortality

- Collaborated with department faculty on a published research paper on the relationship between psychological wellbeing, education, and mortality
- Cleaned and managed survey data from a sample of over 21,000 participants
- Analyzed longitudinal data from 14-year study using STATA

ECDC / African Community Center

Aurora, CO, 4/19-02/20

Mathematics Tutor

- Tutored middle school and high school students in Geometry, Algebra 1, and Algebra 2
- Taught foundational mathematical concepts to help address deficits due to gaps in schooling due to refugee status
- Assisted program coordinators with meal service, event planning, and other general program needs

Colorado School of Public Health

Aurora, CO, 05/19-09/19

Graduate Assistant - Office of the Dean

- Reviewed and compiled literature on public health issues
- Maintained data from digitized administrative materials for Dean's Office and Colorado School of Public Health
- Created archive of respiratory health research, primarily in Excel

Georgia State University

Atlanta, GA, 05/18-08/18

Assistant Program Coordinator

- Collaborated with program director to develop summer enrichment and tutoring program for over 50 refugee youth
- Coordinated volunteer organization visits and daily food service for children in program
- Prepared and implemented weekly lesson plans in mathematics for elementary, middle, and high school students

ORTEC International, LLC

Atlanta, GA, 02/18-08/18

Software Implementation Consultant

- Cleaned, formatted, and queried customer data using XML, XSL, and SQL, improving data accuracy and reporting efficiency
- Analyzed customer data and communicated strategies for improving key performance indicators
- Installed and maintained supply chain logistics software for 5 clients based on organizational and operational needs, resulting in lower fuel and labor costs

Georgia State University

Atlanta, GA, 12/17-05/18

Research Assistant - Curious Learning Project

- Worked closely with project director on study focusing on teaching children to read using mobile applications
- Analyzed user data to inform decisions on study design and allocation of resources
- Maintained tablets used for data collection in study

Durban University of Technology

Durban, South Africa, 08/16-04/17

Visiting Researcher - Department of Medical Orthotics and Prosthetics

- Wrote a literature review on the global trends in amputations and preventative methods across 75 publications and 14 countries in Africa
- Evaluated the needs of 3 local medical facilities and surrounding communities to provide needed resources
- Cleaned and analyzed departmental and academic data in R

Incite Focus Laboratory / Blanche Kelso Bruce Academy

Detroit, MI, 09/15-05/16

Math Tutor / Youth Mentor

- Tutored 10 seniors and juniors to improve graduation and job readiness outcomes
- Assisted the facilitation of a drone flying and building program to teach youth work and life skills
- Assisted faculty in the development of mathematics curriculum for 76 students in the juvenile justice system

University of Michigan

Ann Arbor, MI, 06/15-12/15

Research Assistant - HaptiX Laboratory

- Performed a comparative study of the efficiency of air and water-powered technology for use in prosthetics
- Fabricated a device to investigate ways to improve the control and user experience of haptic technologies
- Mentored local high school students in a design project demonstrating elementary physics engineering concepts

YES Georgia

Atlanta, GA, 06/12-08/13

Mathematics Teacher

- Led weekly sessions in mathematics for students preparing to take the GED exam
- Tutored students to address individual needs and improve skills before taking the exam
- Collaborated with team leaders to develop lesson plans and student success for new and continuing students

City and County of San Francisco, Real Estate Division

Atlanta, GA, 05/11-08/11

Intern

- Cleaned, manipulated and analyzed data in Excel
- Collaborated on building rehabilitation project for non-profits geared toward community development
- Collaborated with team leaders to develop lesson plans and student success for new and continuing students

Waisman Center – University of Wisconsin Madison

Madison, WI, 05/10-08/10

Research Assistant

- Coded acoustic data using Praat, for use in research in child language disorders
- Compiled research articles on language disorders and child development for use in literature review
- Participated in weekly lab meetings with graduate students and faculty

SCHOLARSHIPS AND AWARDS

Teaching Fellow-**University of Colorado Denver**

08/20-05/21

Health and Behavioral Sciences Summer Research Award-**UC Denver**

05/20-08/20

Historically Black College Scholarship-**Middlebury College**

06/12-08/12

Renaissance Scholars Program-**National Science Foundation**

01/11-05/13

U.S. Department of Energy Scholar

01/11-05/13