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Melanie N. Mayer

Date of Preparation: January 15, 2021

Education

Expected 2023	Mailman School of Public Health, Columbia University, New York, NY Department of Biostatistics **Doctoral Candidate**
December 2017	University of Florida, Gainesville, FL **Bachelor of Science in Statistics** **Bachelor of Arts in Economics** Minor in Actuarial Science GPA: 3.89/4.0

Academic Appointments

August 2018 - Present	Department of Biostatistics, Columbia University,Research Assistant ○ Supervisor: Dr. Linda Valeri ○ Research areas: Causal inference methods, external validity, health disparities, environmental mixtures
August 2018 - August 2020	Mailman School of Public Health, Columbia University, Initiative for Maximizing Student Development (IMSD) Program, Graduate Research Assistant

Teaching Experience

Teaching Assistant

Spring 2021	Statistical Inference, Biostatistics Department, Columbia University
Fall 2020	Statistical Methods for Causal Inference, Biostatistics Department, Columbia University
Summer 2019	Introduction to Biostatistics, Biostatistics Epidemiology Summer Training (BEST) Program, Biostatistics Department, Columbia University

Workshops

July 2019/July 2020	Causal Mediation Analysis Training Boot Camp, Environmental Health Department, Columbia University, Course Guide
January 2020	R Markdown and Interactive Dashboards Workshop, RStudio::conf, Teaching Assistant
March 2019	Exxon Mobil Annual Team Training, Data Analysis Workshop, Leader

Experience

February 2018 - June 2018 **Techo-Chile** Centro de Investigación Social (CIS), Santiago, Chile
- Collaborated with the team responsible for providing all analytical reports needed within the 5 sectors of the company
- Analyzed variables across slums such as overcrowding and precarious material to formalize an approach for selecting future slums in which to build houses
- Evaluated data of previously selected families living in slums for whom houses were built to see if requirements were upheld

June 2017 - June 2018 **MIT Abdul Latif Jameel Poverty Action Lab (JPAL)** Education Sector Intern, Cambridge, MA
- Defined the curriculum of the Micromasters in Data, Economics, and Development Policy offered by MIT and JPAL
- Improved the material/topics presented in the course "Data Analysis for Social Scientist" and serve as a teacher's assistant for 20,000+ students
- Ran statistical analyses on past students' demographics and performances to improve program accessibility worldwide and retention rates

May 2016 - August 2016 **Columbia University Mailman School of Public Health** Research Intern, New York, NY
- Researched transferability of motor skills from one side of the body to the other under Dr. Jeff Goldsmith
- Learned biostatistical methods in a rigorous classroom setting and applied them to lab research under the Biostatistics Epidemiology Summer Training (BEST) program
- Acquired statistical programming skills in R and SAS, and applied skills to data from lab

January 2017 - December 2017 **HealthStreet** Data Management Volunteer, Gainesville, FL
- Managed data from surveys gathered around the Gainesville community and other districts in Florida
- Reviewed already-inputted data for quality control procedures
- Helped create weekly newsletters to update all staff by creating graphics through SAS using our data pool

Leadership

August 2019 - Present **Graduate Student Research Seminar (GSRS) Series** Chair, New York, NY
- Organize monthly presentations to disseminate new/current research being done within the department
- Provide a platform for biostatistics doctoral students and post-docs to practice presenting their ongoing work and obtain feedback from their peers

January 2016 - December 2017	**Latin STEM Fair** High School Outreach Chair, Gainesville, FL

- Organized annual fair for over 400 people to spread STEM interest amongst Latinos in the Gainesville Community
- Presented career options within STEM to high school students to increase interest
- Motivated and aided groups of high school students to manage tables with STEM-related activities at the fair

August 2015 - December 2016	**University of Florida Navigators International** Mentor, Gainesville, FL

- Facilitated international students' assimilation into the University of Florida and to the American lifestyle
- Met weekly to check adjustment progress with new culture, language, and classes
- Remained readily available for whenever assistance was sought

Technical Skills

Programming	R, Java, C++, Matlab
Software	LATEX, R Markdown, MS Word, MS Excel, MS Powerpoint

Relevant Coursework

Courses	Advanced Statistical Methods, Statistical Inference, Machine Learning, Probability

Languages

English	Fluent
Spanish	Fluent