Madeline L. Swarr

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Education

University Carlos III of Madrid (Madrid, Spain)
Master of the Sciences in Economic Development and Growth (September 2022)
- Dissertation: "Co-ethnic concentration, social capital, and economic integration of ethnic immigrants in Spain"
    - A micro-econometric analysis of the National Survey of Immigrants to evaluate the economic impact of geographic clustering by country of origin for newly-arrived immigrants in Spain
    - Final mark: *sobresaliente* (outstanding)

Official Language School of the Community of Madrid – Embajadores (Madrid, Spain)
Spanish C1 (January 2021 – June 2022)
- Certified C1 level

Williams College (Williamstown, Massachusetts)
Bachelor of Arts (June 2017)
- Major: Statistics
    - Mu Sigma Rho member
    - Teaching Assistant for STAT 346 Regression and Forecasting
- Coursework: *Regression and Forecasting, Multivariate Statistics, Probability Theory, Bayesian Statistics, Computational Statistics & Data Mining, Multivariable Calculus, Linear Algebra, Intro to Computer Science, Psychology of Education, Social Psychology, Cognitive Psychology, Choice & Decision-making, International Relations, Public Health*

International Honors Program (New Delhi, India; Cape Town, South Africa; São Paulo, Brazil)
Health and Community: Globalization, Culture, and Care (Spring 2016)
- Coursework: *Health, Culture, and Community, Research Methods, Globalization and Health, Public Health*
- Explored health realities at individual and population levels through site visits, lectures, homestays, and research practice with both urban and rural health practitioners, government officials, and activists

Professional experience

Carlos III – Juan March Institute, Universidad Carlos III de Madrid (Madrid, Spain)
Research Associate (October 2022 – ongoing)
- Researcher for the project "Effort and Social Inequality", funded by the European Research Council
- Investigating the effect of incentives on cognitive effort in 5th grade students and how this effect differs across gender and socioeconomic status using real-effort data collected in an experimental setting
- Compiling and disseminating results through manuscripts, policy briefs, presentations, and conferences

Comunidad de Madrid (Madrid, Spain)
English Second Language Teacher (September 2019 – July 2021)
- Organized and implemented the Global Classrooms program in a public bilingual school, a Fulbright program that teaches sustainable development, diplomacy, international relations, and global economy
- Head responsible of curriculum design and teaching of 180+ high school students of varying levels of English, 10 of whom advanced to final stages of the Madrid-wide mock United Nations conference

Acumen, L.L.C./The SPHERE Institute (Washington, D.C.)
Data and Policy Analyst IV, Statistical Programmer (September 2017 – September 2019)
- Collaborated closely with FDA and CDC researchers on high-impact surveillance of vaccine and blood safety
- Conducted large-scale retrospective and real-time epidemiological analyses using Medicare claims data
- Built integrated data pipelines in SAS, SQL, and R to query, process, and analyze databases of 60+ million public and private healthcare beneficiaries
- Compiled reports and constructed dashboards for effective analysis communication with policymakers

Penn Mutual Life Insurance Company (Horsham, Pennsylvania)
Actuarial Intern, Corporate Modeling Team (May 2016 – July 2016)
- Worked in Microsoft Excel and Access to build populations from policies in force
- Rebuilt models to reduce bias in projections based on exact age of policyholder
- Ran new models with updated populations and tables in ALFA and analyzing results

Public Interest Law Center (Philadelphia, Pennsylvania)
Summer Intern (June 2015 – August 2015)
- Researched topics from government policies to prospective funding sources
- Compiled a report on the civilian oversight agency to the Philadelphia Police Department by conducting research, analyzing data, and preparing charts and graphs that illustrated the agency's history of funding
- Provided translation for Spanish-speaking clients

Direct Trade Outreach (Independent Winter Study, Williams College)
Project Leader (January 2015)
- Traveled to Central America to help establish direct/fair trade relationships between local coffee growers and small independent coffee roasters in the United States
- Conducted on-site visits at various coffee farms in Costa Rica and Panama; collected information and video footage to be used for future websites and background briefings for interested roasters in the East Coast

Volunteering experience
Williams Elementary Outreach at Brayton Elementary School **(North Adams, Massachusetts)**
- Tutored students struggling with math and writing; assisted with after-school programs *(2014-2017)*

The Deane Family (Buenos Aires, Argentina)
- Provided child care and English lessons for 2 girls, ages 3 years and 6 months *(Summer 2014)*

The Shine Centre, Cape Town, South Africa
- Taught English to primary school students (1st-5th grade) *(May 2013)*

Activities
C.D.E. Dragones de Lavapiés, Madrid, Spain
- Soccer coach, English teacher, and player for grassroots soccer club that provides social support and integration for 500+ children and families in the multicultural neighborhood of Lavapiés *(2021 – ongoing)*

Varsity Soccer, Williams College
- NCAA Division III National Champion (2015); National Finalist *(2014)*
- NSCAA First Team All-New England (2015); NESCAC All-Academic Team *(2014)*

WCFM Radio, Williamstown, Massachusetts
- Personnel Director and host of student-run radio station *(2015 – 2017)*

Skills
Computer: R and tidyverse/ggplot2, SAS, SQL, Stata, Microsoft Excel
Languages: Spanish (proficient, CEFR – C1)

Publications
Pharmacoepidemiology & Drug Safety (June 2019)
"A simulation study of the statistical power and signaling characteristics of an early season sequential test for influenza vaccine safety."

The Journal of Infectious Diseases (November 2020)
"Guillain-Barré Syndrome After High-Dose Influenza Vaccine Administration in the United States, 2018–2019 Season."