Madeline L. Swarr

Calle Tribulete 18, 3°C, 28012 Madrid, Spain • +34 631777278 • madelineswarr@gmail.com

**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](Swarr_Madeline_MEDEG_Thesis_final_final.pdf)”
  + 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](https://www.effort-project.eu/)”, 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](https://madelineswarr.wixsite.com/moocfinalproject/background) 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.”*](https://onlinelibrary.wiley.com/doi/10.1002/pds.4807)

**The Journal of Infectious Diseases** (November 2020)

[*“Guillain-Barré Syndrome After High-Dose Influenza Vaccine Administration in the United States, 2018–2019 Season.”*](https://academic.oup.com/jid/article/223/3/416/5952165)