JOSEPH LEVINE

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Citizenship: USA   DOB: 1996-10-27
GitHub   LinkedIn

EDUCATION

B.A., Economics, Joint Degree, International Honours   May 2018
    College of William and Mary, Williamsburg, VA, USA; *summa cum laude*
    University of St Andrews, Fife, Scotland, UK; *First Class (1:1)*
- Dean's List (all semesters); 3.86 cumulative GPA; 3.94 Economics GPA
- Completed two years at each institution, meeting all major requirements at both schools

Non-Degree Seeking Math Coursework
- **American University**: Real & complex analysis; 4.0 GPA (2020)
- **University of Maryland**: Advanced linear algebra & partial differential equations; 4.0 GPA (2020)

RESEARCH EXPERIENCE

Pre-Doctoral Researcher, Freetown, Sierra Leone   December 2020 –
Profs. Mushfiq Mobarak (Yale) & Maarten Voors (Wageningen); Dr. Niccoló Meriggi (IGC)
- Designs and implements an impact evaluation of a large-scale (200+ communities) solar mini-grid intervention across Sierra Leone
- Trains enumerators, cleans data, conducts pre-analyses, and produces tables/figures for academic working papers and presentations, using both Stata and R

Research Director, Washington, D.C.   September 2017 –
Team Afghan Power
- Managed in-country needs assessment for a medium-scale development project in rural Afghanistan
- Lead implementation of on-site pre- and post-intervention surveys for monitoring and evaluation purposes
- Designed and implemented behavioral experiments eliciting willingness-to-pay for utility development

Research Assistant, Karnataka and Uttar Pradesh, India   April 2018 – May 2019
Professor S.P. Harish, College of William and Mary
- Designed and implemented field surveys with randomized elements in rural India to investigate questions in developmental and energy economics
- Implemented surveys and field experiments examining 1) the preferences of informal sector workers towards foreign direct investment and 2) household preferences for solar vis-a-vis the district electricity grid and perceptions of air pollution

Research Intern, Washington, DC   May 2015 – August 2015
Center for the Science of Science and Innovation Policy (CSSIP)
- Produced market analysis reports for evolving technologies based upon large public and proprietary databases using Python, Stata, and MySQL
- Organized competitions between experienced computer and data scientists from universities and think tanks in development of machine learning algorithms for large university finance data sets

Research and Administrative Intern, Williamsburg, VA   October 2014 – May 2016
Project on International Peace and Security (PIPS)
- Collected and analyzed data in Stata on the effect of Indian immigration policing on Bangladeshi immigration into northeastern India

PROFESSIONAL WORK EXPERIENCE

Data Scientist, Washington, D.C.   November 2019 –
Bryce Space and Technology
- Supports diverse economic and market study projects for clients in the energy and telecommunications services industries, covering topics such as international regulation, venture capital, and stochastic factors

- Leads a project evaluating accuracy of past forecasts made by US government agencies on technology, economic, and political outcomes, using a self-developed methodology in coordination with the Open Philanthropy Project
- Leads data maintenance and analysis on several medium-size databases, using SQLite and SPSS

Consultant, Data Scientist**,** Washington, D.C.   August 2018 – November 2019
Booz Allen Hamilton
- Supported research and implementation of incentive-based policies to engage taxpayers in repayment schemes for the Department of Treasury using behavioral economics and psychology. This project was inspired by the UK Behavioural Insights Team
- Developed machine learning models to identify apprenticeship job listings among databases of millions of job listings using Python for the Department of Labor

SKILLS

- **Econometrics** – Advanced cross section (Professor Rob Hicks, ECON407) and advanced time series (Professor Carl Moody, ECON408)
- **Python**, extensive data science experience, Pandas, web scraping, machine learning, image processing
- **Stata** – five years of experience, including time series analysis, panel data, and basic ML
- GIS – **ArcGIS, QGIS,** & **geospatial libraries in R**

SELECTED RESEARCH PROJECTS

- "Reassessing the Natural Resource Curse: Effects of Oil Discovery on Democracy and Governance," with SP Harish, accepted for presentation at APSA 2021.
- "Planned and Charter Cities as Emigration-reduction Policies," accepted for presentation at APSA 2021.
- "Foreign Direct Investment and Informal Labor Sector Opinion," with SP Harish, working paper.
- "Voting Structures, Agricultural Measures, and Secession in Antebellum Virginia," senior thesis (2018).
- "The Impact of Bangladeshi Climate Refugees on India: Improving Foreign Aid to Bangladesh to Stabilize South Asia," *Project on International Peace and Security*, Rebecca Brown and Joseph Levine (2017) link.

HONORS AND AWARDS

Patti Grace Smith Scholarship   Class of 2019
Commercial Spaceflight Federation
- Provided full funding to attend academic conferences in D.C., Las Vegas, and San Diego

Dean's List   All Semesters 2014-2018
College of William and Mary

Critical Language Scholarship, Bengali, Washington, D.C. and Kolkata, India   Class of 2017
US State Department

OTHER ACTIVITIES

Montgomery County Fire & Rescue Service, EMT & Emergency Driver   January 2019 –
- Volunteer EMT and ambulance driver responding to 911 calls in Washington, D.C. and southern Maryland
- Leads training and outreach activities, including CPR classes for teenagers and education around local health and environmental hazards

Space Generation Congress 2019, Organizing Committee   February 2019 –
Space Generation Advisory Council
- Leads outreach efforts to STEM-interested teenagers and university students for the UN-affiliated space agency, focused on the Sustainable Development Goals