Ian A. Davis

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Summary

Resourceful, detail-oriented data analyst with a passion for advancing social equity via evidence-based solutions

Work Experience

DataPulse Research

Freelance Contributing Data Journalist Remote   03/2025 - Present

- Authored short-form articles paired with interactive dashboards to communicate statistical insights on politics, culture, and leisure for a startup web publication
- Scraped and analyzed web data using Python tools like BeautifulSoup, Ibis, Polars, Pandas, & Scikit-learn to generate interactive dashboard visualizations with Panel, Plotly, Leaflet, Datawrapper, and D3.js

Penn Development Research Initiative, DevLab

Consulting Data Scientist Remote   09/2024 – Present

- Used geospatial raster data and Python-powered computer vision to compare the prevalence of illegal charcoal kiln sites in treatment and comparison areas of Zambia
- Contributed matching weight & regression analyses to the results sections of impact evaluations assessing agroforestry interventions among cocoa farmers in Cote D'Ivoire and Ghana

Mathematica Policy Research

Bilingual Field Data Collector Springfield, MA   10/2025 – 12/2025

- Managed 200+ cases for the 2025 Mass ECHOS household finance survey for the Federal Reserve Bank of Boston
- Recruited respondents in-person at their residence using English, Spanish, and relationship-building skills

Center for Social Norms and Behavioral Dynamics, University of Pennsylvania

Research Specialist Philadelphia, PA   01/2024 - 02/2025

- Wrote and managed the R & Quarto codebase for seven research manuscripts investigating poverty trap mechanisms from a nationally representative longitudinal survey of more than 6,000 Americans
- Uncovered key determinants of perceived intergenerational mobility via machine learning (weighted LASSO)
- Contributed to novel survey methodology research quantifying respondents' uncertainty around future income

Stanford SPARQ and the Stanford Cohen Lab

Research Assistant Remote   02/2023 - 09/2023

- Used R/RStudio, machine learning techniques (elastic net) and natural language processing to predict changes in over 2,000 participants' [attitudes toward federal welfare](#)
- Developed a Python/JavaScript text analytics algorithm that gives online survey participants real-time feedback on their communication style for better political discussions
- Recruited 1,500 college students as online study participants via Qualtrics and an online survey panel

Intersectionality in the Social Mind Lab, Haverford College

Research Assistant Haverford, PA   10/2020 - 12/2022

- Used social network and text analyses to uncover gender differences in 600+ news articles about police killings
- Launched and taught R/RStudio data analysis workshops in addition to mentoring new lab members

Internal Revenue Service/Coding it Forward
Data Analyst Fellow   Remote   06/2022 - 08/2022
- Selected from 1,600 applicants to join 160 early-career technologists in exploring federal careers
- Empowered my team to prioritize instances of major tax fraud by developing a wealth estimator tool using recent economic research, R/RStudio, Stata, and PostgreSQL
- Presented to senior leadership, including Acting Director of the Office of Fraud Enforcement Katie Fox

The Kensington Storefront, Mural Arts Philadelphia
Program Facilitator   Philadelphia, PA   06/2020 - 09/2021
- Supported the mission of Mural Arts, Philadelphia's pre-eminent arts and behavioral health non-profit, by organizing and teaching a custom introductory Spanish course to more than 30 direct service providers

New Comienzos/Haverford Center for Peace and Global Citizenship
Summer Fellow   Mexico City, Mexico   06/2019 - 08/2019
- Tutored English learners at New Comienzos' DreamTeach English School
- Recruited new students through phone conversations and outreach materials

Education
B.S. cum laude, Psychology Major and Statistics Minor   Cum. GPA: 3.89
Haverford College, Haverford, PA   08/2018 - 12/2022
- Senior Thesis: *"Group Status Identity as a Predictor of Social Dominance Orientation in Children"*
- Launched a Psychology department peer mentorship program in collaboration with Psych. Dept. faculty

Non-Degree Graduate Studies   Cum. GPA: 3.85
University of Pennsylvania, Philadelphia, PA   08/2024 - 12/2024
- As a University of Pennsylvania employee, I leveraged tuition benefits to complete two graduate-level courses: Applied Impact Evaluation & Geospatial Data Science in Python

Volunteer Experience
180 Degrees Consulting, Bryn Mawr & Haverford Colleges
Volunteer Consultant   Haverford, PA   09/2021 – 12/2022
- Evaluated and presented promising new outlets for promotion of a revenue-generating virtual training program for a non-profit global health firm

Fundación En Vía/Omprakash
Volunteer English Teacher   Oaxaca, Mexico   07/2017 - 05/2018
- Received a small grant to help organize and teach an inaugural business English class for women entrepreneurs

Publications
- Lei, R. F., Kinsler, B., Hudson, S.-k. T. J., Davis, I., & Vandenbark, A. (2025). Antecedents and consequences of preferences for hierarchy in early childhood. Journal of Experimental Psychology: General.

Skills
Areas of Expertise: Statistical Modeling, Regression Techniques, Machine Learning, NLP, Survey Design, & Spanish

Software: R/RStudio, Python, PostgreSQL, Stata, Qualtrics, JavaScript, HTML, Ubuntu, Excel, & G Suite