Matthew E. Dardet

CONTACT
INFORMATION

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Parkland, Florida, USA 33076

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EDUCATION

Harvard University, Cambridge, MA

Ph.D. Government, 2026 (Anticipated)

Stanford University, Stanford, CA

B.A.H. Political Science, 2021

Minor in History and Law

Pine Crest School, High School Diploma, Fort Lauderdale, FL, 2017

University of Chicago, Biotechnology Certificate, Chicago, IL, 2013

WORK
EXPERIENCE

Political Psychology Research Group, Stanford, CA

Research Assistant **Fall 2019 to Present**

- Co-authored book with Professor Jon A. Krosnick and colleagues on contingent valuation, a statistical and survey methodology for estimating the economic value of public goods such as natural resources.
- Collaborated with Dr. Matt Berent on redesigning surveys on improving science literacy in America for the National Science Foundation (NSF).
- Writing undergraduate honors thesis on improving survey data quality through analyzing experiments in the 2008 American National Election Studies (ANES) using regression and structural models.

Stanford University School of Medicine, Stanford, CA

Research Assistant **Winter 2017 to Summer 2019**

- Wrote convolutional neural network (CNN) algorithm (DeepTHANOS: a novel neural network architecture for Deep Thalamic Nucleus Optimized Segmentation) for applications in biomedical imaging.
- Generated reports on the feasibility of deep learning (CNNs, GANs, Bayesian deep learning methods for calculating uncertainty and validity) for the instance segmentation of soft-tissue brain structures.
- Analyzed data using weka segmentation for project investigating hypoxia, endoplasmic reticulum stress, and neuron/glia survival in the retina and optic nerves.

Max Planck Florida Institute for Neuroscience, Jupiter, FL

Data Scientist, Intern **Summer 2017**

- Modified spike analysis software using SciPy and Pandas to apply Gaussian and Kalman filtering algorithms to find peaks and other anomalies in time-series-like data.
- Mentored German exchange student in data science and basic coding in Python.

AWARDS &
RECOGNITION

1. Presidential Scholar, Harvard GSAS (2021)

2. Pi Sigma Alpha Honor Society (2020)

3. Stanford Latinx Community Award (2018, 2019, 2020)

4. Regeneron (Formerly Intel/Westinghouse) Science Talent Search (STS) Top Scholar (2017)

5. Siemens Competition Regional Finalist (2017)

6. Miami Herald Silver Knight Award, Science Category (2017)

7. National Merit Finalist & National Hispanic Scholar (2017)

8. Sigma Xi Research Competition First Place in Cellular and Molecular Biology (2016)

9. Yale Book Award (2016)

LANGUAGES, TECHNOLOGIES, AND STATISTICAL MODELS	• Python, Java, C, C++, MATLAB, LaTeX, R, Stata, SPSS • TensorFlow, Keras, Git • Survey Statistics and Methodology, Contingent Valuation, Causal Inference, Regression Models, Instrumental Variables, RDDs, Bootstrapping, Deep Learning (CNN, GAN)