Garrett Darl Lewis

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EDUCATION

PRINCETON UNIVERSITY
Princeton, NJ, USA
Ph.D. in Politics
State and Federal Politics

M.A. in Politics
Political Economy
Quantitative Methods
Game Theory

CALIFORNIA INSTITUTE OF TECHNOLOGY
Pasadena, CA, USA
B.S. in Applied Physics and Political Science
Minor in Aerospace

CITIZENSHIP

USA

KEY COURSEWORK

TEACHING
Health Politics and Federalism
Statistics and Machine Learning
Game Theory
Molecular Biology

GRADUATE
Quantitative Methods
Industrial Organization
Political Economy
Game Theory

UNDERGRADUATE
Aerospace Engineering
Experimental Methods
Econometrics
Statistical Programming
Differential Equations
Real and Complex Analysis
Fluid Mechanics
Statistical Mechanics
Biophysics and Optics

SELECT SKILLS

PROGRAMMING
Matlab • R • Stata • C++
Git • Mathematica • Python
SQL • LaTeX • QGIS • ImageJ

LINKS

Website: https://DarlLewis.com

ABOUT ME

My expertise lies in the use of quantitative and computational methods to analyze complex systems. My background in physics, biology, engineering, and public policy gives me a unique perspective to analyze these environments, drawing on the tool sets of both the natural and social sciences.

EXPERIENCE

WASHINGTON UNIVERSITY IN ST. LOUIS
2018 - 2019 | University City, MO, USA
Postdoctoral Research Fellow

- Research and teaching in political science with emphasis on game theory and statistics applied to science policy and mentoring graduate teaching assistants.

PRINCETON UNIVERSITY
2011 – 2018 | Princeton, NJ, USA
Assistant in Instruction and Research Assistant

- Teaching, research, and mentoring in statistics, machine learning, game theory, health policy, and molecular biology.

CALIFORNIA INSTITUTE OF TECHNOLOGY
2007 – 2011 | Pasadena, CA, USA
Assistant in Instruction and Undergraduate Research Fellow

- Teaching, research, and mentoring in strategic decision-making and statistical programming. Funded by competitive grants.

OFFICES OF US SEN. PETE DOMENICI AND REP. HEATHER WILSON
2007 - 2008 | Washington, DC, USA and Albuquerque, NM, USA
Intern

- Policy analysis and development across a variety of topics, including defense, healthcare, veterans affairs, and immigration. Special focus on legislation in the Committee on Energy and Natural Resources.

ASSORTED PRODUCTION COMPANIES
2004-2007 | Albuquerque, NM, USA
Technical Advisor and Production Assistant

- Technical advising and production assistance at multiple theaters

RESEARCH

POLITICAL ECONOMY WUSTL, Princeton, and Caltech | 2009 - Present
Using game theory and statistical methods, including structural modeling, I study a wide variety of topics in political economy, emphasizing decision-making in committee settings and complex political environments such as courts, federations, and scientific debates.

Sample Publication:
2013. "To Elect or Appoint? Bias, Information, and Responsiveness of Bureaucrats and Politicians" with M. Iaryczower and M. Shum. Journal of Public Economics. Vol. 97, pp. 230.

BIOPHYSICS AND AEROSPACE Caltech | 2010 - 2011
In the Phillips Group, I drew on biochemistry, optics, and computational programming to analyze viral DNA packing with an eye to treating infection and potential bioengineering applications in a series of experiments.

In the Dabiri Group, I used a combination of experimental and computational approaches to study the fluid dynamics of vortices and ocean circulation. Analytical techniques included digital particle image velocimetry, dyes, and complex mathematical modeling.

PROFESSIONAL SERVICE

2016 -	Referee, American Political Science Review
2011 - 2017	Graduate Committee, Department of Politics, Princeton
2010 - 2011	Curriculum Committee, Caltech
	Academics and Research Committee,Caltech
	Political Science Student-Faculty Committee (Chair)
	Applied Physics Student-Faculty Committee (Interim Chair)

FELLOWSHIPS AND AWARDS

2011-2018	Centennial Fellowship, Princeton
2009-2010	Summer Undergraduate Research Fellowship, Caltech
2008	Beckman Political Internship, Caltech
2006	Rensselaer Medal
2006	3rd Place in Engineering, Intel International Science and Engineering Fair, Indianapolis

COURSES TAUGHT

WUSTL	Health Politics
	The Politics of Federalism
Princeton	Introduction to Data Science
	Quantitative Principles in Cell and Molecular Biology
	Statistics for Social Science
	Modern Genetics and Public Policy
	Advanced Tools for LaTeX
	Quantitative Analysis I (Graduate-Level)
	Formal Political Analysis I (Graduate-Level)
Caltech	Campaigns and Elections

MEMBERSHIPS

Caltech Alumni Association • Princeton Alumni Association • American Political Science Association • Southern Political Science Association • Midwest Political Science Association • The International Society of Public Law • St. Louis Mineral and Gem Society

HOBBIES

Outside of the office, I am an avid rock collector, and I enjoy excursions to seek out new specimens, especially meteorites and fluorescent minerals. I also enjoy spending time in the back-country exploring hidden forest waterfalls and bright mountain peaks. When it is raining, I enjoy a good modern history book and occasionally peruse the Congressional Record.

REFERENCES

Further references are available upon request, particularly in regards to biology and engineering.

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DR. NOLAN MCCARTY
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DR. DAISY HUANG
Statistics and Machine Learning
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