

Haynes Stephens

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EDUCATION

- Ph.D. University of Chicago** | Chicago, IL | Dept. of Geophysical Sciences Spring 2024 (expected)
McCormick Graduate Fellowship
- B.A. University of California, Berkeley** | Berkeley, CA | Dept. of Astronomy May 2018
Phi Beta Kappa, *Cum Laude*

TECHNICAL SKILLS AND INTERESTS

Technical: Python, scikit-learn, Jupyter Notebook, R, GeoPandas, Xarray, TensorFlow, Git
Knowledge: Machine learning, geospatial data analysis, climate change impacts, science policy and communication

RESEARCH AND ANALYSIS EXPERIENCE

- Dept. of Geophysical Sciences, University of Chicago** | Chicago, IL Mar 2019 – Present
Graduate Researcher
- Led an internationally collaborative project quantitatively evaluating computational models of crop development
 - Conducted independent projects using machine learning to model the responses of U.S. agriculture to climate change
 - Managed and analyzed terabytes of geospatial data through cloud computing and supercomputer clusters
- Center for Robust Decision-making on Climate and Energy Policy** | Chicago, IL Mar 2019 – Present
Research Associate
- Researching the limitations to U.S. energy transitions based on historical infrastructure evolution
- National Science Foundation Research Traineeship** | Chicago, IL Sep 2019 – Sep 2023
Fellow - Data Science for Energy and Environmental Research
- Advised three graduate students on an interdisciplinary project to model how weather can prevent farmers from planting
 - Advised three graduate students on an interdisciplinary project to quantitatively analyze historical heat waves in Chicago
 - Built curriculum for a summer coding boot camp providing computational skills to junior graduate students
 - Led an interdisciplinary collaboration of five students to evaluate statistical methods for modeling crop responses to weather

PROFESSIONAL EXPERIENCE

- Dept. of Geophysical Sciences, University of Chicago** | Chicago, IL Jun 2020 – Present
Graduate advisor
- Advised an M.S. Statistics candidate studying how weather-outcome statistical regressions change under climate warming
 - Mentored a B.A. Physics student in research quantitatively analyzing weather effects on agriculture
 - Oral presentation delivered to the American Geophysical Union Fall 2020 Meeting
- Dept. of Geophysical Sciences, University of Chicago** | Chicago, IL Mar 2019 – Present
Graduate instructor
- Designed and instructed a two-quarter Environmental Data Science Practicum course
 - Created a public speaking course geared toward STEM graduate students in collaboration with the UChicago GRAD office
 - Instructed an Advanced Python session in three consecutive summer coding boot camps
 - Instructed an introductory undergraduate course on Global Warming through an innovative flipped-classroom approach

POLICY EXPERIENCE

UW Program on Climate Change Summer Institute | Friday Harbor, WA Sep 2022

- Participated in a week-long symposium focused on pathways toward net zero carbon emissions
- Connected with faculty and industry professionals about challenges with rapid renewable deployment and electrification

UChicago Science Policy Group | Chicago, IL Sep 2019 – Jun 2021
Vice President & Government Relations Chair

- Promoted student engagement in science policy through club meetings and outreach events
- Led communications with the UChicago Office of Government Relations

VOLUNTEER/EXTRACURRICULAR EXPERIENCE

- UChicago Black History Month Student Panel (*invited*)
- UChicago Environmental Frontier Career Panel for Undergraduates (*invited*)
- Peer mentor: Physical Sciences Division Office of Equity, Diversity, and Inclusion
- Grad student representative: UChicago Geophysical Sciences Equity, Diversity, and Inclusion Coordination Team
- Dept. representative: UChicago Graduate Recruitment Initiative Team
- Fundamentals of Teaching STEM workshop series (*certificate*)

AWARDS

- UChicago Physical Sciences Division Diversity Award
- National Science Foundation Graduate Research Fellowship Program (honorable mention)
- Ford Foundation Predoctoral Fellowship (honorable mention)
- UC Berkeley Dept. of Astronomy 2018 Student Commencement Speaker (*invited*)

ADDITIONAL SKILLS AND INTERESTS

Languages: Spanish (intermediate).

Interests: Road trips, stand-up comedy, essays and autobiographies, tennis.