Jasper Neath Curriculum Vitae

jneath@purdue.edu

Education and Honors

PhD in Political Science   Expected May 2028
- Purdue University, West Lafayette, IN

M.A. in Political Science   Expected May 2025
- Purdue University, West Lafayette, IN

B.A. in Political Science and Earth Systems Science   May 2023
- Trinity University, San Antonio, TX

Pi Sigma Alpha Member   May 2021
- Inducted into the National Political Science Honors Society

Sigma Gamma Epsilon Member   May 2021
- Inducted into the National Earth Sciences Honors Society

NSCS Member   February 2020
- Inducted into the National Society of Collegiate Scholars

Research and Work Experience

Computational Social Sciences Lab Researcher   August 2023-Present
- Ongoing research with the Computational Social Sciences Lab and Dr. Bryce
  Dietrich at Purdue University. Tasks include applying geospatial, computer vision,
  and machine learning techniques to social science problems, and leading teams of
  undergraduate students to complete specific projects.

Court of Claims Lab Lead Graduate Assistant   May 2024-Present
- Ongoing research in Dr. Logan Strother's Court of Claims Lab. Tasks include
  leading data management, cleaning, and preparation for the Court of Claims

Database project, as well as mentoring undergraduate research assistants on the team.

Keck Geology Consortium Research Team Member   May 2022-December 2022
-   Performed research funded by the Keck Geology Consortium to develop a digitized 3D model of the Sevier fault zone near Orderville, Utah, using Move2020 software.

Partisan, Polarization, and Pluralism Lab Assistant   January 2021-May 2022
-   Assisted Dr. Jesse Crosson with researching the extent of interest group polarization in America from 1973 to 2020.

Climate Policy Advisor   August 2021-December 2021
-   Worked with the Mayor of San Antonio, Ron Nirenberg, and his policy making team to develop a climate and energy policy plan to mitigate the effects of climate change in San Antonio.

Microsoft Research Team Member   December 2018-April 2019
-   Worked with Microsoft to develop a virtual reality application for use by child cancer patients as distraction and relaxation therapy.

Publications

Neath, Jasper, and Surpless Benjamin. "Modeling the Sevier Fault Zone, Southern Utah: Validity Testing and 3D Analysis": Keck Geology Consortium Short Contributions, v. 35, https://doi.org/10.18277/AKRSG.2023.35.03.

Neath, Jasper, and Surpless, Benjamin, 2022 "Modeling the Segmented Sevier Normal Fault: 3D Analysis and Validity Testing": Geological Society of America Abstracts with Programs, v. 54, no. 5, https://doi.org/10.1130/abs/2022AM-380456

Conference Presentations

"Modeling the Sevier Fault Zone: Validity Testing and 3D Analysis" Presented at the Geological Society of America Connects Annual Meeting, Denver, CO, 2022.

"Not In My Backyard (NIMBY) and Geospatial Analysis: A Potential Path Forward"
Presented at Purdue GIS Day: Exploring GeoAI, West Lafayette, IN, 2024.

Relevant Coursework

Applied Computer Vision	Political Science Methodology
Research Design Methods	Research Methods in Political Science
Graduate Proseminar on American Politics	Basin Analysis
Global Climate Change	The Mayor and the City
Statistical Methods	Qualitative Methods in Political Science
Experimental Methods in the Social Sciences	GIS Research Methods
Artificial Intelligence in State and Local Government	

Computer Skills

Move2020 (Expert, 1 year experience)	C# (Advanced, 6 years experience)
Python (Advanced, 5 years experience)	RStudio (Advanced, 3 years experience)
ARC-GIS (Advanced, 2 years experience)	HTML (Intermediate, 1 year experience)
CSS (Intermediate, 1 year experience)	Scala (Beginner, 1 year experience)
Swift (Beginner, 1 year experience)	NVivo (Beginner, 1 year experience)

References

Available Upon Request