Phiala Thouvenin, Ph.D.

(she/her)

Résumé

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Objective

Self-driven scientific researcher focused on data science, analysis, and visualization. I'm a strong team player that learns fast and has proven experience across a range of scientific technologies.

Education

2013 – 2022 • PH.D. Geophysics, Purdue University.

2011 – 2013 • M.S. Geology, The University of Akron.

2006 – 2011 • B.S. Geology, The University of Akron.

Experience

Purdue University — Department of Earth, Atmospheric, and Planetary Sciences

2018 – 2022 • TEACHING COORDINATOR. Physical Geology.

2014 – 2022 • TEACHING ASSISTANT. Capstone Environmental Science For Elementary Education Teachers, Physical Geology, Geosciences in the Cinema, and Fossil Fuels, Energy and Society.

2013 – 2022 • RESEARCH ASSISTANT. P.I.: Dr. Saad S. B. HAQ.

- Designed scientific experiments to solve problems related to tectonics and the climate, utilizing novel techniques and resulting in models that tell us about how the Earth works.
- Utilized many computational languages and tools such as Python (e.g., pandas, numpy, scipy, scikit-image, openCV), and MATLAB to process experiments, resulting in easily-navigable large datasets that were then mined for information.
- Developed data visualization techniques in Python's matplotlib for large datasets, using visualization as a storytelling tool.
- Mentored multiple students and professors in using scientific techniques, resulting in work presented at conference presentations and in dissertations.
- Managed multiple instructors, increasing the overall quality of teaching within the department and resulting in several awards.

The University of Akron — Department of Geosciences

2012 • TEACHING ASSISTANT, Structural Geology, Earth Science, and Oceanography.

2011 – 2013 • COORDINATOR, Geologic Resource Center.

- Designed numerical experiments, utilizing MATLAB and Perl tools to solve geological problems and resulting in peer-reviewed literature.
- Received grants from several funding agencies for my work, which allowed for swift completion of my research as well as for travel and collaboration with other scientists.

Computer Proficiency

Advanced
- PYTHON (pandas, numpy, scipy, scikit-image, openCV, Jupyter), MATLAB, Microsoft Office Suite

Intermediate
- Adobe Creative Suite, Shell scripting, FORTRAN

Basic
- PERL, C/C++, ARCGIS, SQL, R

Selected Honors, Awards, & Grants

2017 – 2019
- EAPS TEACHING HONOR ROLL. Dept. of Earth, Atmospheric, and Planetary Sciences; Purdue University.

2018
- CEDRIC J. NEWBY AWARD. Dept. of Earth, Atmospheric, and Planetary Sciences; Purdue University.

2013
- OUTSTANDING GRADUATE STUDENT IN GEOLOGY AWARD. Dept. of Geosciences; The University of Akron.

2012
- GRADUATE STUDENT RESEARCH GRANT. The Geological Society of America.

2012
- SEG STUDENT RESEARCH GRANT. Society of Economic Geologists.

Volunteering & Outreach

2020 – Present
- Indiana Horse Rescue, Frankfort, Indiana

2017 – 2018
- PURDUE EAPS PASSPORT DAY, Imagination Station, Lafayette, Indiana