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Dawson Fairbanks

POSTDOCTORAL RESEARCHER

ABOUT

Interdisciplinary research scientist interested in microbiology, soil science and global change resulting in 6 scientific research publications, a co-developed R package NEONMicrobe and the development of a novel stable isotope modeling technique. Awarded over $300,000 for innovative microbial research. I have handled complex and challenging tasks integrating microbiological datasets across multiple scales. Collaborative, creative and independent I am passionate about providing solutions to global challenges using integrated and combined approaches.

SKILLS

- R
- Python
- Bash/Shell
- SQL
- HTML/CSS+
- HPC

EDUCATION

2021

PHD SOIL, WATER, ENVIRONMENTAL SCIENCE MINOR IN NATURAL RESOURCE MANAGEMENT

THE UNIVERSITY OF ARIZONA

2012

B.S. BIOLOGICAL SCIENCE, MINOR IN CHEMISTRY

NORTHERN ARIZONA UNIVERSITY

REFERENCES

RACHEL GALLERY

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DEPARTMENT HEAD

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EXPERIENCE

2021 - Present

The University of Arizona

POSTDOCTORAL RESEARCHER, PRINCIPAL INVESTIGATOR DOE RESEARCH GRANT

- Analyzed complex biological and field data, made predictions and presented results at scientific conferences and in scientific research papers.
- Effectively mined and cleaned unstructured data creating reproducible workflows.
- Collaborated with technical working group to synthesize data products and workflows across multiple network observatories.

2014- 2021

The University of Arizona

GRADUATE STUDENT RESEARCHER, NSF CRITICAL ZONE OBSERVATORY

Project Experience

- Oversaw planning and design of field research experiments, laboratory analyses and data management plans and products for a large multi-year NSF research project.
- Co-created and published the R package NEONMicrobe to enable researchers to analyze available microbial datasets across multiple scales.

-**Research Experience**

- Utilized advanced sensors and satellite imagery in combination with laboratory and genetic analyses and machine learning to derive a mechainstic understanding into soil functionality and microbial trait distribution.
- Presented research findings at over 25 international and regional professional conferences.

Communcation and Leadership Experience

- Led and co-organized a scientific session at the American Geophysical Union international meeting (2017-2022) with over 400 abstact submission and to audiences of 300+ attendees.
- Communicated with policymakers and land managers to transfer complex science to diverse stakeholders effectively using data visualization skills.

AWARDS

2021 DOE CSP New Investigator Award- PI
2021 NSF LTER Synthesis Network Award- Participant
2019-2021 UA/NASA Space Grant
2016 NSF Students Across Virtual Institutes
2014-2016 NSF Graduate Research Fellowship Program
2012 Hooper Undergraduate Research Awards
2019 1st Place UA Earth Week Poster Award
2017 Geobiology Institution Travel Award, Caltech
2016 UA Carson Science Communication Scholarship
2014 UA Access Graduate Fellowship
2014 Sloan Indigenous Graduate Partnership Fellowship