

# Erin Robinson

GRADUATE STUDENT | CONSULTANT

Information Science Department, University of Colorado

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## Education

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### Ph.D., Information Science (in progress)

UNIVERSITY OF COLORADO, BOULDER

*Boulder, CO*

*Aug. 2021 - Present*

### M.Sc., Information Science

UNIVERSITY OF COLORADO, BOULDER

*Boulder, CO*

*Aug. 2021 - May 2024*

### M.Sc., Energy, Environmental and Chemical Engineering

WASHINGTON UNIVERSITY IN ST. LOUIS

*St. Louis, MO*

*Jun. 2006 - Nov. 2010*

- Thesis: Integration Of Multi-Sensory Earth Observations For Characterization Of Air Quality Events

### B.Sc., Chemical Engineering

WASHINGTON UNIVERSITY IN ST. LOUIS

*St. Louis, MO*

*Aug. 2002 - May. 2006*

## Research Interests

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Computer-Supported Cooperative Work, Environmental Informatics, Knowledge Infrastructure, Science of Science, STS

## Professional Experience

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### CEO & Co-Founder

METADATA GAME CHANGERS, LLC

*Boulder, CO*

*Nov 2020 - Present*

### Executive Director

EARTH SCIENCE INFORMATION PARTNERS (ESIP)

*Boulder, CO & National*

*Nov 2014 - Sep 2020*

### Information and Virtual Community Director

EARTH SCIENCE INFORMATION PARTNERS (ESIP)

*Boulder, CO & National*

*Nov 2010 - Nov 2014*

### Research Assistant

CENTER FOR AIR POLLUTION IMPACT AND TREND ANALYSIS (CAPITA), WASHINGTON UNIVERSITY IN ST. LOUIS

*St. Louis, MO*

*Jun 2006 - Nov 2010*

## Publications

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For all publications see my Google Scholar Profile

## Papers

- Lowndes, J. S., Holder, A. M., Markowitz, E. H., Clatterbuck, C., Bradford, A. L., Doering, K., Stevens, M. H., Butland, S., Burke, D., Kross, S., Hollister, J. W., Stawitz, C., Siple, M. C., Rios, A., Welch, J. N., Li, B., Nojavan, F., Davis, A., Steiner, E., ... Robinson, E. (2024). Shifting institutional culture to develop climate solutions with Open Science. *Ecology and Evolution*, 14(6), e11341. <https://doi.org/10.1002/ece3.11341>
- Praetzelis, M., Buys, M., Chen, X., Chodacki, J., Davies, N., Garza, K., Nancarrow, C., Riley, B., & Robinson, E. (2023). A Programmatic and Scalable Approach to making Data Management Machine-Actionable (1). 22(1), Article 1. <https://doi.org/10.5334/dsj-2023-026>
- Robinson, E., Buys, M., Chodacki, J., Garza, K., Monfort, S., Nancarrow, C., Praetzelis, M., Riley, B., Wimalaratne, S., & Davies, N. (2022). FAIR Island: Real-World Examples of Place-based Open Science. *Zenodo*. <https://doi.org/10.5281/zenodo.7384146> (Accepted to Gigascience)
- Stall, S., Yarmey, L., Cutcher-Gershenfeld, J., Hanson, B., Lehnert, K., Nosek, B., ... E. Robinson & Wyborn, L. (2019). Make scientific data FAIR. *Nature*, 27-29, <https://doi.org/10.1038/d41586-019-01720-7>.
- Wilson, Anne, Downs, R. R., Lenhardt, W. C., Meyer, C., Michener, W., Ramapriyan, H., & Robinson, E. (2014). Realizing the Value of a National Asset: Scientific Data. *Eos, Transactions American Geophysical Union*, 95(50), 477–478.
- Robinson, E., Meyer, C. B., & Lenhardt, W. C. (2012). Moving the science data quality dialogue forward. *Eos, Transactions American Geophysical Union*, 93(19), 189–189.

## Posters (Peer Reviewed)

- Robinson, E., & Palen, L. (2023). Invisible Coordination Work: Field Stations as Scientific Caregivers. Companion Publication of the 2023 Conference on Computer Supported Cooperative Work and Social Computing, 160–163. <https://doi.org/10.1145/3584931.3606982>

## Conference Presentations (Light peer review, invited noted with \*)

- Davies, N., & Robinson, E. (2024). Resisting Contextual Collapse: How an Internet of Places (iPlaces) can help Field Stations and Marine Labs Operationalize FAIR and CARE Principles for Environmental Sustainability and Social Justice. AGU24.
- Wyborn, L. A., Robinson, E., Farrington, R., & Rawling, T. (2024). Improving Practices for Persistently Recording the CARE Principles for Collections of Place-based Research Samples, Observations and Instrument Measurements. AGU24.
- Robinson, E., Anderson, J., Buttigieg, P. L., Choe, S., Davies, N., Kansa, E. C., ... & Lehnert, K. (2024). Sampling Nature: Looking to the Future for AI-ready Samples. AGU24.
- \* Robinson, E., Anderson, J., Buys, M., Chodacki, J., Choe, S., Davies, N., Kansa, S., Lehnert, K., Meyer, C., Praetzelis, M., Thomer, A., Vieglais, D., Walls, R., & Wimalaratne, S. (2023, December 14) (Invited Union Session). Exploring the Hidden Afterlives of Material Samples: How the Internet of Samples (iSamples) and Transdisciplinary Collaboration Across the Material Sample Community Enables Open Science with Samples. In AGU Fall Meeting Abstracts. <https://doi.org/10.5281/zenodo.10381317>
- Lowndes, J. S. S., Robinson, E., Lind, B. M., Steiker, A. E., Lopez, L. A., Friesz, A., ... & Shriver, S. (2023). NASA Openscapes approaches and stories of kinder, open science in the Cloud. AGU23.
- Friesz, A. M., Viridi, M., Lind, B. M., Lowndes, J. S. S., & Robinson, E. (2023). Community building across government and responding to researcher needs with the NASA Openscapes framework. AGU23.
- Kempler, L. A., Lopez, L. A., Wen, Y., Cornillon, P., Lowndes, J. S. S., Robinson, E., & Hepplewhite, C. L. (2023). Accessing NASA Earthdata in the Cloud: Experiences Using MATLAB on NASA Openscapes' 2i2c JupyterHub. AGU23.
- Lind, B. M., Tagliatela, C. M. O., Nickles, C., Friesz, A. M., Hunzinger, A., Thornton, M., ... E. Robinson & Lowndes, J. S. S. (2023, December). Enabling Analysis in the Cloud Using NASA Earth Science Data. In AGU23. AGU.
- Robinson, E., Anderson, J., Hudson, M., Meyer, C., & Davies, N. (2022). Island Sampling: Applying the FAIR and CARE Principles to Material Samples in Support of Place-based Sustainability Science. In AGU Fall Meeting Abstracts.
- \* Lowndes, J., Robinson, E. (2021). (Invited Union Session) Open Project Design: Lessons from the NASA Openscapes Framework. In AGU Fall Meeting Abstracts
- \* Robinson, E. (2020). (Invited Award Lecture) AGU Leptoukh Lecture: Putting Data to Work: Moving science forward together beyond where we thought possible. In AGU Fall Meeting Abstracts.
- \* Robinson, E. (2019a). (Invited Union) Invited panelist. In AGU Fall Meeting Abstracts.

## Other Presentations (non-archival)

- Habermann, T., & Robinson, E. (2025). ConnectingPIDS.pptx. ESIP January 2025. <https://doi.org/10.6084/M9.FIGSHARE.28598225.V1>
- Lowndes, J., Robinson, E., Lopez, L., Fenwick, I., & Holmes, E. (2025). Including more solutions and more solvers via actionable open science. ESIP. <https://doi.org/10.6084/M9.FIGSHARE.28208174.V1>
- Habermann, T., & Robinson, E. (2024). WhatCameFirst: The Paper Or the Data. ESIP. <https://doi.org/10.6084/M9.FIGSHARE.25139354>
- Robinson, E. (2024). Sampling Nature RCN Poster. ESIP. <https://doi.org/10.6084/M9.FIGSHARE.25049909>
- Robinson, E., Buys, M., Chodacki, J., Davies, N., Meyer, C., Praetzelis,M., & Wimalaratne, S. (2024, January 25). FAIR Island: Planning for FAIR & CARE Data Before the Field Work Begins. In ESIP January 2024 Meeting. [https://docs.google.com/presentation/d/1CeBYTE-w6YfhR-b9dmHO8NeSiuySZ\\_XO/edit#slide=id.p1](https://docs.google.com/presentation/d/1CeBYTE-w6YfhR-b9dmHO8NeSiuySZ_XO/edit#slide=id.p1)
- Robinson, E., Palen, L. (2023, November). Making the Invisible Visible: What Kind of Credit Do Field Stations Need for Their Contributions to the Scientific Enterprise?. Poster at OBFS 2023 Meeting. [https://www.canva.com/design/DAFtxwfJGWk/hYvKzllMTvk1rEEe5CsDMQ/watch?utm\\_content=DAFtxwfJGWk&utm\\_campaign=designshare&utm\\_medium=share](https://www.canva.com/design/DAFtxwfJGWk/hYvKzllMTvk1rEEe5CsDMQ/watch?utm_content=DAFtxwfJGWk&utm_campaign=designshare&utm_medium=share)
- Robinson, E., Palen, L. (2023, November). Invisible Coordination Work: Field Stations as Scientific Caregivers. Lightning Talk at OBFS 2023 Meeting. [https://www.canva.com/design/DAFsGp\\_Hujk/zGm1io7ohThl2ogK7OR8-Q/view?utm\\_content=DAFsGp\\_Hujk&utm\\_campaign=designshare&utm\\_medium=link&utm\\_source=editor](https://www.canva.com/design/DAFsGp_Hujk/zGm1io7ohThl2ogK7OR8-Q/view?utm_content=DAFsGp_Hujk&utm_campaign=designshare&utm_medium=link&utm_source=editor)
- Robinson, E. (2023, November). Autoethnographic Anecdotes on Scientific Caregiving with Environmental Data: A Way Toward Data-Enabled Sustainability? Workshop paper. CSCW 2023
- Robinson, E., Buys, M., Chodacki, J., Davies, N., Meyer, C., Praetzelis,M., & Wimalaratne, S. (2023, July). Project Metadata and Ongoing Re-curation: Tracking the impact of field station research. In ESIP July Meeting. [https://docs.google.com/presentation/d/1YMfPmJ6jOAYRKs\\_ehnGn77-Ln\\_kJpL\\_5ZUzTulE0a6s/edit#slide=id.p1](https://docs.google.com/presentation/d/1YMfPmJ6jOAYRKs_ehnGn77-Ln_kJpL_5ZUzTulE0a6s/edit#slide=id.p1)
- Robinson, E., Anderson, J., Hudson, M., Meyer, C., & Davies, N. (March 2023). Island Sampling: Applying the FAIR and CARE Principles to Material Samples in Support of Place-based Sustainability Science. Australian Research Data Commons Sample Community of Practice Kick-off Webinar.
- Robinson, E., Chodacki, J., Davies, N., Buys, M., Nancarrow, C., Praetzelis, M., Garza, K., Wimalaratne, S., & Habermann, T. (2022, October 26). The FAIR Island Project: Tracking the impact of field station research. <https://doi.org/10.5281/zenodo.7308803>
- Robinson, E., Praetzelis, M., Davies, N., Garza, K. (2021) FAIR Island: Networked, Machine-Actionable DMPs for Open Science. In 2021 Webinar Series Highlighting RDA Outputs

## Awards & Honors

### CMCI Scholarship

UNIVERSITY OF COLORADO, BOULDER

2024

### CMCI Scholarship Award from the Ernie and Jean Martin Graduate Fund

UNIVERSITY OF COLORADO, BOULDER

2023

### Leptoukh Lecture Award

EARTH AND SPACE SCIENCE INFORMATICS SECTION, AMERICAN GEOPHYSICAL UNION (AGU)

2020

- “For achievement in computational sciences, data sciences, and informatics leading to, or enabling, advances in domain science.”

### Outstanding Contributions in Geoinformatics

GEOINFORMATICS DIVISION, GEOLOGICAL SOCIETY OF AMERICA (GSA)

2020

- “Honors an individual who has contributed in an outstanding manner to geology through the application of the principles of Geoinformatics”

### NASA Exceptional Public Service Medal

NASA

2020

- “For exceptional, sustained, and creative community building among NASA and its collaborators, significantly enhancing NASA investments in data, technology, and applications.”

## Grants

Additional funding from past positions can be found on my ORCID profile

### SEEKCommons Fellowship

SEEKCOMMONS RCN FUNDED BY NSF AWARD # 2226425

Jan 2024 - Oct 2024

## EAGER: The FAIR Island Project for Place-based Open Science

NATIONAL SCIENCE FOUNDATION

2021 - 2024

- Co-Principal Investigator (PI: John Chodacki, California Digital Library; Co-I: Neil Davies, UC Berkeley, Gump Field Station; Co-I: Matt Buys, DataCite)
- \$296,234 (Robinson: \$121,440.00)

## Openscapes: Enabling a new era of science on the cloud in response to the 2020 NASA

### ROSES Element E2

NASA

2021 - 2024

- Consultant (PI: Julia Lowndes, UC Santa Barbara)
- \$900,000 (Robinson: \$273,071)

## Teaching Experience

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### Instructor

*Moorea, French Polynesia*

UNIVERSITY OF CALIFORNIA, BERKELEY

Mar 2025

- Island Sustainability Program, Data Science, Communication, and Professionalism (ESPM 109E) course

### Instructor

*Moorea, French Polynesia*

UNIVERSITY OF CALIFORNIA, BERKELEY

Mar 2024

- Island Sustainability Program, Data Science, Communication, and Professionalism (ESPM 109E) course

### Instructor

*Moorea, French Polynesia*

UNIVERSITY OF CALIFORNIA, BERKELEY

Mar 2023

- Island Sustainability Program, Data Science, Communication, and Professionalism (ESPM 109E) course

### Grader

*Boulder, CO*

UNIVERSITY OF COLORADO, BOULDER

Spring 2023

- INFO 4608: Mastery in Information Science: Community-Based Design
- Instructor: Dr. Ricarose Roque

### Grader

*Boulder, CO*

UNIVERSITY OF COLORADO, BOULDER

Fall 2023

- INFO 2131: Information Ecosystems
- Instructor: Dr. Leysia Palen

### Grader

*Boulder, CO*

UNIVERSITY OF COLORADO, BOULDER

Fall 2022

- INFO 2131: Information Ecosystems
- Instructor: Dr. Leysia Palen

## Volunteer/Service

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### University Service

- Teaching Faculty Hire Committee (2024)
- INFO GSA, Treasurer (2022-2023)
- GPSG Liaison to the Library Review Board (2021-2022)

### Reviewing Work

- CHI 2024
- CSCW 2022, 2023, 2024, 2025
- NSF 2023, 2024

## Workshops and Session Convening

- iSamples Workshop, Feb 2025, Moorea, French Polynesia
- SEEKCommons Annual Convening, December 2024, Berkeley, CA
- Island Health and Sustainability Conference, November 2024, Moorea, French Polynesia
- IMLS FAIR+CARE Workshop, October 2024, Marin, CA
- Sampling Nature Research Coordination Network Workshop, May 2024, Washington, D.C.
- Robinson, E., Adler, J., Wyborn, L. A., Smith, D. K., & Damerow, J. E. (2023, December). Preserving Our Primary Field Data for Future Generations of Geoscientific Research: Perspectives on Managing Physical Samples, Airborne Observations, and Other Field Data I Oral. In AGU23.
- Sampling Nature Research Coordination Network Workshop, Dec 2023, New York City, NY
- Sampling Nature Research Coordination Network Workshop, May 2023, Tucson, AZ

## Other Memberships

- OBFS (2023-Present)
- CSCW 2023 Registration Chair, Organizing Committee
- OpenAQ Board, Treasurer and Member (2022-present)
- ACM SIGCHI (2021-present)
- Research Data Alliance (2018-present)
- American Geophysical Union (2006-present)
- Earth Science Information Partners (2006-present)

## Additional Credentials

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### Sustainable and Digital Transformation PhD Course

AALBURG UNIVERSITY

*Remote*

2024

- <https://www.en.tech.aau.dk/research/research-groups/centre-for-sustainable-and-digital-transformation>

### NASA Open Science

NASA

*Online*

2024

- <https://www.credly.com/badges/5ec9bece-6911-471f-a45b-918a2efa9eaa>

### Certified Carpentries Instructor

CARPENTRIES

*Online*

2023

### Research Data Bootcamp Badge

UNIVERSITY OF COLORADO, BOULDER

*Online*

2021

- Data Bootcamp Project: Recreate key findings from 'State of Open At University of Colorado Baseline report'

### Associate Certified Coach

INTERNATIONAL COACHING FEDERATION

*Online*

2021

- Renewed 2024

### Social Behavioral Research Investigators and Key Personnel

CITI

*Online*

2021

- Renewed 2024

### Social and Behavioral Responsible Conduct of Research

CITI

*Online*

2021

- Renewed 2024