

Curriculum Vitae

Erin Marie Robinson | Executive Director, ESIP

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Education and Academic Qualifications:

2006 Bachelor of Science - Washington University in St. Louis

2010 Masters of Science – Washington University in St. Louis

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

Employment History:

2020-present CEO, Erin Robinson Consulting, LLC

2014-20 Executive Director, Earth Science Information Partners (ESIP)

2010-14 Information and Virtual Community Director, Earth Science Information Partners (ESIP)

2006-10 Research Assistant, Center for Air Pollution Impact and Trend Analysis (CAPITA), Washington University in St. Louis

Steering/Working Group Service

1. AGU Data Management Assessment Advisory Board, Chair (2017-2020)
2. Environmental Data Initiative (EDI) Advisory Board (2020-present)
3. CU EarthLab External Advisory Committee (2019-present)
4. Research Data Alliance (RDA) Earth, Space and Environmental Interest Group, Co-Chair (2018-2020)

Awards & Honors

2020: [Leptoukh Lecture Award](#), Earth and Space Science Informatics Section, American Geophysical Union (AGU) ("For achievement in computational sciences, data sciences, and informatics leading to, or enabling, advances in domain science.")

2020: [Outstanding Contributions in Geoinformatics](#), Geoinformatics Division, Geological Society of America (GSA) ("Honors an individual who has contributed in an outstanding manner to geology through the application of the principles of Geoinformatics")

2020: NASA Exceptional Public Service Medal ("For exceptional, sustained, and creative community building among NASA and its collaborators, significantly enhancing NASA investments in data, technology, and applications.")

Research Interests

1. Empowering scientists to find, access, use and understand Earth science data
 - a. Led AGU Data Fairs 2014-2019 (<http://www.esipfed.org/press-releases/agu-fall-meeting-data-help-desk>)
 - b. Organized and led the Data Help Desk at the 2017-2019 AGU Fall Meeting
 - c. Championed the Data Management Training Clearinghouse especially as it is being used in the Enabling FAIR data project. (<http://dmtclearinghouse.esipfed.org/>)
2. Scientific Community Management and Collaboration
 - a. Created ESIP Community Fellows program to teach community management skills to graduate students and support students as they build their professional networks
 - b. Co-investigator for the NSF EarthCube project and NSF West Big Data Hub project leading community engagement efforts
 - c. Principle Investigator for Sloan-funded award, ImHere, to increase networking connections for in-person meeting attendees
 - d. Created and led Ignite@AGU 2011 -2019 – a popular evening event at Fall AGU meetings that brings together a diverse group across sections to share their work in 5-minute lightning talks. Developed outreach and training to ensure high quality talks.
3. Facilitating Unintended Earth Science Data Reuse
 - a. Led the international Air Quality community in implementing the international standard, ISO

19115. Extended the documentation of air quality datasets through creative use of Mediawiki wiki pages called DataSpaces to engage both data users and providers.
- b. Performed air quality event analysis using distributed datasets from model, surface and satellite sources.
 - c. Created Air Twitter, which identified air quality events using social media posts and then retweeted scientific event analysis back to Twitter followers. (Forbes: <https://www.forbes.com/2010/11/05/air-quality-research-technology-twitter.html-3418e336723b>)
 - d. Connected ESIP network with All Hazards Consortium, developed the concept of Operational Readiness Levels based on Technology Readiness Levels. This connection allowed ESIP members to provide data to utility companies and other disaster response end users.

Selected Publications & AGU Abstracts:

Additional Presentations: <https://www.slideshare.net/erinmr>

All Publications: <https://orcid.org/0000-0001-9998-0114>

- Allison, M., Keane, C., & **Robinson, E.** (2015). EarthCube-A Community-led, Interdisciplinary Collaboration for Geoscience Cyberinfrastructure. In *AGU Fall Meeting Abstracts*.
- Burgess, A., **Robinson, E.**, & Graybeal, J. (2015). Independent Technology Assessment within the Federation of Earth Science Information Partners (ESIP) Testbed. In *AGU Fall Meeting Abstracts*.
- Falke, S., Husar, R., Yang, C., **Robinson, E.**, & Fialkowski, W. (2009). Developing Interoperable Air Quality Community Portals. In *EGU General Assembly Conference Abstracts* (Vol. 11, p. 13956).
- Husar, R., Hoijarvi, K., Falke, S., **Robinson, E.**, & Leptoukh, G. (2008). (Invited) The Federated Data System DataFed: Experiences in Data Homogenization and Networking. In *AGU Spring Meeting Abstracts*.
- Narock, T., Rozell, E., & **Robinson, E.** (2012a). Creating a Linked Data Hub in the Geosciences. In *AGU Fall Meeting Abstracts*.
- Narock, T., Rozell, E., & **Robinson, E.** (2012b). Facilitating Collaboration Through Linked Open Data. In *AGU Fall Meeting Abstracts*.
- Robinson, E.** (2019a). (Invited Union) Invited panelist. In *AGU Fall Meeting Abstracts*.
- Robinson, E.**, Benedict, K., Daniels, M. (2019b). (Invited Union Session) Making Data Matter: Increasing the Use and Value of Earth science Data & Information. In *AGU Fall Meeting Abstracts*.
- Robinson, E.** (2015a). (Invited) Community Resilience, the Foundation for Earth Science and the ESIP Federation: Bouncing Forward with Collective Impact. In *AGU Fall Meeting Abstracts*.
- Robinson, E.** (2015b). (Invited) Transforming networking within the ESIP Federation using ResearchBit. In *AGU Fall Meeting Abstracts*.
- Robinson, E.** & Husar, R. (2005). Aerosol Characterisation Using the SeaWiFS Sensor and Surface Data. In *AGU Fall Meeting Abstracts*.
- Robinson, E.**, Meyer, C., & Benedict, K. (2013). ESIP Federation: A Case Study on Enabling Collaboration Infrastructure to Support Earth Science Informatics Communities. In *AGU Fall Meeting Abstracts*.
- Robinson, EM.** (2010). Air Twitter: Mashing Crowdsourced Air Quality Event Identification with Scientific Earth Observations. In *AGU Fall Meeting Abstracts*.
- Robinson, EM.**, Hoijarvi, K., Falke, S., Fialkowski, E., Kieffer, M., & Husar, R. (2008). (Invited) Enabling Tools and Methods for International, Inter-disciplinary and Educational Collaboration. In *AGU Spring Meeting Abstracts*.
- Robinson, EM.** & Husar, R. (2008). DataSpaces: Using Community Workspaces to Enable Rich Air Quality Metadata. In *AGU Fall Meeting Abstracts*.
- Robinson, EM.**, Husar, R., Falke, S., & Habermann, R. (2009). Air Quality Community Catalog and Rich Metadata for GEOSS. In *EGU General Assembly Conference Abstracts* (Vol. 11, p. 11724).
- Robinson, Erin.** Meyer, C. B., & Lenhardt, W. C. (2012). Moving the science data quality dialogue forward. *Eos, Transactions American Geophysical Union*, 93(19), 189–189.
- 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.