

Sean Michael Ferguson, Ph.D.

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Academic Training

Ph.D. Rensselaer Polytechnic Institute, Troy, NY **2012**

MS/PhD in Science and Technology Studies

Dissertation: "Plastics without Petroleum: The Politics of 'Green' Bioplastics in the United States"

B.S. Beloit College, Beloit, WI **2002**

Honors B.S. in Cellular and Molecular Biology and B.S. in Political Science

Professional Appointments

Special Consultant for the creation of Coastal Institute **2022-present**

California State University Channel Islands

Board President **2016-present**

H.O.P.E. Gardens

Grant writer and Consultant (2016-present)

Board Secretary from (2020-2022)

Board President (2022-Present)

Grant Writing Consultant **2023-present**

Ventura County Community Foundation

Grant Writing Consultant **2023-present**

Anese & Associates. Supported over \$250 million in proposals to date.

Assistant Professor of Science, Technology, and Society **2014-2022**

University of Virginia, Department of Engineering and Society

City of Charlottesville Sustainability Office's Composting Program **2016-2019**

Volunteer

Heartside Gleaning Initiative **2013-2015**

Board member

Energy Analyst Intern **2010-2013**

New York State Energy Research and Development Authority

New York State Governor's Offices of Energy and Environment **2008-2010**

Awards and Grant Funding

Achieved

Campus-Wide Colloquium: Designing and Re-imagining Technology for Our Future at CSU-Channel Island. \$5,000 (2022)

Faculty Writing Workshop. Designed to improve faculty led writing and communication instruction for undergraduate engineers. \$2000 (2021)

Thrive Grant: STS and Engineering Practice: Community Engagement and Co-learning Innovation. \$5000 (Spring 2019)

CGII-Provost Grant: Co-PI with Ku and Womack: Great Wall to New Silk Road: Global Innovation, Sustainability and International Standardization in US-China Relations. \$60,000 (Spring 2018)

NIST Education Grant: Standard-Aligned Design for Smart Sustainable Cities. \$75,000 (2018)

UVA Library Course Enrichment Grant: Information and Digital Literacy. \$2500 (2018)

Rensselaer Polytechnic Institute: Humanities and Social Sciences Graduate Fellowship. \$100,000 (2010–2012)

Pending and Applied

For clients of Anese and Associates, LLC. Florida Broadband (\$200,000). EPA Solar for All (\$250M). CA Strategic Growth Council Community Resilience Center (\$5M).

Environmental Protection Agency (EPA) Environmental Justice Thriving Communities Grantmaking Program. PI: M. Kenny Feister. (pending, 2023). \$50,000,000.

EPA Environmental Justice Thriving Communities Granting Program (EJ TCGM) Collective for Community-Led and Accessible Grantmaking. Megan Kenny Feister (PI), Sean Ferguson (Program Director). \$50M/3yrs (pending, 2023)

Developing a Multicultural and Global Virtual Classroom for Transformative STEM Education. Sean Ferguson (co-PI), Megan Kenny Feister (co-PI), Qin Zhu (co-PI). NFS-IUSE-HIS: \$800,000 (applied, 2023)

Exploring the eco-ethical identity of AI researchers. Megan Kenny Feister (co-PI), Qin Zhu (co-PI), Sean Ferguson (Senior Personnel). \$400,000 (applied, 2023)

EPA The Environmental Justice Thriving Communities Technical Assistance Centers Program. "Carmen Ramirez Center for Coastal Environmental and Energy Justice". \$10M/5yrs (applied, 2023). Sean Ferguson (Project Director)

Public Interest Technology University Network Challenge: A Model for Community-Lead University Partnerships in Public Interest Technology. PIT-UN: \$180,000 (applied, 2020)

Effective and Equitable Crowdsourcing Technologies (EffECTs) for Broadening Participation in Restoring and Improving Urban Infrastructure. NSF: \$500,000 (applied, 2019)

Non-profit grants

- H.O.P.E. Gardens GR. A non-profit organization devoted to empowering student education and food justice through developing gardens and sustainability education. Successfully brought in \$600,000+ (2019-present)
- Heartside Gleaning Initiative. Supported initial startup of group including applications for funding from regional foundations. Successfully brought in ~\$40,000 (2013-2015)

Publications

Peer-Reviewed Articles

- Foley, R. W., Ferguson, S. M., & Pollack, C. (2021) "Measuring the amorphous: Substantive and methodological outcomes from concept maps." *Journal of Engineering Education*. <https://doi.org/10.1002/jee.20373>
- Wylie, C., Neeley, K., & Ferguson, S. (2018). Beyond Technological Literacy: Open Data as Active Democratic Engagement? *Digital Culture & Society*, 4(2), 157–182. <https://doi.org/10.14361/dcs-2018-0209>
- Ferguson, S. & Foley, R. W. (2017). Assessment of Student Learning Outcomes and ABET Accreditation: A Pilot Study of Fourth-Year Engineering Students using Longitudinal Concept Maps. 2017 ASEE Annual Conference & Exposition. <https://peer.asee.org/assessment-of-student-learning-outcomes-and-abet-accreditation-a-pilot-study-of-fourth-year-engineering-students-using-longitudinal-concept-maps>
- Ferguson, S. M., Foley, R. W., Eshirov, J. K., & Pollack, C. C. (2018). Refining Concept Maps as Method to Assess Learning Outcomes Among Engineering Students. 2018 ASEE Annual Conference & Exposition. <https://peer.asee.org/refining-concept-maps-as-method-to-assess-learning-outcomes-among-engineering-students>
- Odumosu, T., Ferguson, S., Foley, R. W., Neeley, K. A., Wylie, C. D., Ku, S. T., & Berne, R. W. (2018). Dimensions of Diversity in Engineering: What We Can Learn from STS. ASEE Annual Conference & Exposition. <https://peer.asee.org/dimensions-of-diversity-in-engineering-what-we-can-learn-from-sts>

Professional and Community Service

Professional Service

- Division Chair-elect (2022-2023) & Program Chair for ASEE- Liberal Education / Engineering and Society Division [LEES] (2021-2023)
- Member the Design Team for the Platform for Experimental Collaborative Ethnography hosted at UC-Irvine (2022-present)
- Social Event and Invited Guest Speaker Coordinator, Webmaster and Newsletter Editor for ASEE-Liberal Education / Engineering & Society Division (2018-2022)
- ASEE Conference and Journal of Engineering Education Manuscript Referee (2016-Present)