

Bryn Elizabeth Seabrook

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I am seeking to apply my education to a career identifying and communicating the relationship between science and the public, with a particular focus on socio-technical relationships.

Education

Doctor of Philosophy, Virginia Tech, May 2016

- Ph.D. in Science and Technology Studies Adviser: Dr. Eileen Crist
 - Dissertation: “Diamonds: Cultural Representations and Transformations of a ‘Girl’s Best Friend’”
- Graduate Certificate in Environmental Politics and Policy, Spring 2015
- Certificate, Training in Human Subjects Protection, Fall 2012
- Certificate, NIH Responsible Conduct of Research, Fall 2012

Master of Science, Virginia Tech, May 2014

- MS in Science and Technology Studies Adviser: Dr. Eileen Crist

Bachelor of the Arts, Virginia Tech, May 2012

- Major: Humanities, Science, and Environment
- Minor: Music -Vocal Performance
- Academic Dean's List, Fall 2010 and Spring 2012

Experience

Assistant Professor in the Department of Engineering and Society at the University of Virginia.
January 2017 - Present.

- Responsibilities include teaching a variety of courses to engineering students, advising undergraduate portfolios for STS 4500 and STS 4600, and service.
- Representative for the College of Engineering to the General Faculty Council. May 2019-Present.

Faculty Wage Lecturer in the Department of Engineering and Society at the University of Virginia. August 2016 - January 2017

- Responsibilities include academic advising, leading lab discussions, grading written assignments, and lecturing for STS 1500 – a first-year, introductory class in STS.

Freelance Writer, Dana Communications. June 2016-2018

Graduate Teaching Assistant, Virginia Tech STS Department, August 2012 - May 2016

- Lead class discussions, give presentations, and grade student work.

Teaching

Courses Taught and Developed at UVA

- STS 2600: Engineering Ethics [Spring 2024 – Present]
- STS 2500: Engineering Ethics [Spring 2023]
- STS/MAE 6592: How Engineering Impacts Diversity, Equity, and Inclusion [Fall 2022]
- STS 2500: Science, Technology, and Environment [J-Term, 2021/2022, Summer 2022]
- STS 2500: Science & Technology in Popular Culture [Spring 2021]
- STS 4600: The Engineer, Ethics, and Professional Responsibility [Spring 2017 - Present]
- STS 4500: STS and Engineering Practice [Fall 2017 - Present]
- STS 1500: Science, Technology, and Contemporary Issues: Great Inventions that Changed the World [Fall 2016]

Courses Taught and Developed at Virginia Tech

- STS 2454: Science, Technology, and Environment [Fall 2019, TA]
- STS 4304: Food Challenges and Dilemmas [Spring 2017, TA]
- STS 1504: Humanities, Science, and Technology [Spring 2017, TA]
- STS 1504: Humanities, Science, and Environment [Spring 2016, TA]
- STS 2054: Engineering Cultures [2012-2016, TA]

Service

Within the Department of Engineering and Society, University of Virginia

- Served on the academic general faculty (AGF) hiring committee (2024)
- Served as Co-Director for the Tech Ethics minor (Present)
- Served on the department peer review committee (2024)
- Served on the Wingfield Student Award Committee (2024-2025)
- Served in talent recruitment for the E&S Tenure-Track Search (2023)
- Served on the academic general faculty (AGF) hiring committees (2023)
- Mentored new faculty (Present)
- Served on academic general faculty (AGF) hiring committees (2022)

- Served on academic general faculty (AGF) hiring committees (2021).
- Collected research and assembled relevant material for the STS self-study report (2020).
- Created new and innovative courses during Summer Session and J-Term.
- Assembled, distributed, and tracked the Thesis Cataloging Form (2019).
- Assisted in website organization – identified areas of potential improvement and assisted colleagues in editing and updating their faculty webpages (2018).

At the University of Virginia

- Served as the Program Director for UVA in Germany Study Abroad Program (Present).
- Served as a Faculty AI Guide (2024-2025).
- Participated in a Coaching Essentials professional development through District C in collaboration with the Engineering Foundations team (2024).
- Participated in the CTE Course Design Institute (2024).
- Served on academic general faculty (AGF) hiring committee for Engineering Foundations (ENGR) (2023).
- Served as a mentoring consultant for UVA graduate students partnering with local Albemarle high school programs (2023).
- Served as an interim DDEI (2023).
- Served as the representative for the Engineering School to the UVA General Faculty Council (GFC), namely serving on the communications committee.
- Worked closely with the Engineering Student Council to support their events, such as increasing engagement between students and faculty during E-Week, organizing writing workshops for the undergraduate portfolio, and attending faculty/student engagements like the Clark Scholars luncheon.

Outside of the University of Virginia

- Elected as a council member for the Society for Social Studies of Science (2019-2022). I served on the Elections Committee (as chair in 2022), Mullins Prize Committee (as chair in 2022), and the Infrastructure Award Committee, in addition to other council duties.
- Served as a faculty advisor for STGlobal, a graduate student-run conference held annually in Washington, D.C.

Publications and Presentations

Seabrook, Bryn. *AI, Ethics, and the Environment: Contextualizing Sociotechnical Systems for Undergraduate Engineering Students*. Paper presented at Rethinking the Inevitability of AI, Virtual Conference. December 2024.

Seabrook, Bryn. *Navigating Generative AI Ethics in Engineering Curricula: A Teaching Guide for University Professors*. Paper presented at SEAC annual conference. Clemson, South Carolina. October 2024.

Neeley, Kathryn, William Davis, Bryn Seabrook, and Joshua Earle. *Social Foundations of Education as a Model for Social Foundations of Engineering: Possibilities for Engaging the Philosophy of Engineering*. Paper presented at the annual ASEE conference. Portland, Oregon. June 2024.

Guillen Grillo, Sergio and Bryn Seabrook. *Choreographing Virtue: The Role of Situatedness and Layering in Building Moral Muscle Memory in Engineering Ethics Education*. Paper presented at the annual ASEE conference. Portland, Oregon. June 2024.

Seabrook, Bryn. *Using Generative AI as an Active Learning Tool to Refine Professional Engineering Skills*. Paper presented at the annual ASEE-Southeast Annual Conference. Atlanta, Georgia. March 2024.

Seabrook, Bryn. *What Would ChatGPT Say? Engaging with AI in the STS Classroom*. Paper presented at the annual SEAC Conference. Harrisonburg, Virginia. October 2023.

Forelle, MC, Kent Wayland, and Bryn Seabrook. *Applying STS to Engineering Education: A Comparative Study of STS Minors*. Paper presented at the annual ASEE Conference. Baltimore, Maryland. June 2023.

Berne, Rosalyn, William Davis, Kent Wayland, Bryn Seabrook, and Caroline Crockett. *Incorporating Giving Voice to Values (GVV) into an Engineering Ethics Course*. Paper presented at the annual ASEE Conference. Baltimore, Maryland. June 2023.

Seabrook, Bryn. *"How Engineering Impacts Diversity, Equity, and Inclusion": A Case Study in Graduate Course Design and Assessment*. Paper presented at 2023 ASEE-Southeast Annual Conference. Arlington, Virginia. March 2023.

Seabrook, Bryn. *"Science and Technology in Popular Culture": The Influence of Politics, Entertainment, and Societal Norms on Engineering Education*. Paper presented at 2022 ASEE-Southeast Annual Conference. Charleston, South Carolina. March 2022.

Seabrook, Bryn. *"Science and Technology in Popular Culture": How Discussions of Representation and Collective Attitudes Influence Engineering Education*. Paper presented at the Society for Social Studies of Science (4S) Annual Conference. Toronto, Canada. October 2021.

Seabrook, Bryn. *STS and Engineering Education: A History of the Undergraduate Thesis at the University of Virginia*. Paper presented at the Society for Social Studies of Science (4S) Annual Conference. Prague, Czech Republic. August 2020.

Seabrook, Bryn, Neeley, Kathryn, Zacharias, Kari, Caron, Brandiff. *Teaching STS to Engineers: A Comparative Study of Embedded STS Departments*. Paper presented at 2020 ASEE Annual Conference & Exposition. Montreal, Quebec, Canada. June 2020.

Seabrook, Bryn. *American Consumerism, Advertising, and the Social Construction of the "Diamond."* Paper presented at the Society for Social Studies of Science (4S) Annual Conference. New Orleans, Louisiana. September 2019.

Neeley, Kathryn, Wylie, Caitlin, and Seabrook, Bryn. *In Search of Integration: Mapping Conceptual Efforts to Apply STS to Engineering Education*. Paper presented at 2019 ASEE Annual Conference & Exposition. Tampa, Florida. June 2019.

Seabrook, Bryn. *Training Socially Conscious Engineers: How STS Application Minimizes Discriminatory Technologies*. Paper presented at the American Society for Engineering Education – Southeast Annual Conference. Raleigh, North Carolina. March 2019.

Whiteley, Bryn. *The Technological Invention of Synthetic Diamonds: A History of a Politically and Environmentally Correct Substitute*. Paper presented at the Society for Social Studies of Science (4S) Annual Meeting: "STS Making and Doing," Denver, CO, November 2015.

Whiteley, Bryn. *Culture and Value Nexus: The Case of Diamond Advertisements*. Paper presented at the Brian Bertoti Innovative Perspectives in History Graduate Conference, Virginia Tech, March 2015.

Whiteley, Bryn. *Everyone is a Diamond in the Rough*. Paper presented at the Society for Social Studies of Science (4S) Annual Meeting, Buenos Aires, Argentina, August 2014.

Whiteley, Bryn. *Expert Perceptions on Natural Diamonds and Their Substitutes*. Poster presented at the Virginia Tech Engagement Showcase, Spring 2013. 3rd Place Poster.

Whiteley, Bryn. *Expert Perceptions on Natural Diamonds and Their Substitutes*. Paper presented at 3rd Annual Graduate Conference in Science and Technology Studies, York University, Toronto, Ontario, Canada, Spring 2013.

Grants and Awards

Cohort 3 of Teaching With Heart Program
Colorado School of Mines

University of Virginia Center for Teaching Excellence Faculty AI Guide (2024-2025)

University of Virginia Engineering Character Strength Initiative (ECSE)
PIs: Rosalyn Berne and Jesse Pappas
Co-PIs: Sergio Grillo Guillen, William Davis, Leyf Starling, and Bryn Seabrook
Amount Received: \$900,000 | Submission Date: 6/11/2024

Harold S. Morton, Jr. Undergraduate Teaching Award, May 2024
Amount Received: \$500

CTE Thrive Grant
PI: Rosalyn Berne
Co-PIs: William Davis and Bryn Seabrook
Amount received: \$20,000 | Submission Date: 1/12/2023

Mini-grant for Enhancing Faculty Diversity, Equity, and Inclusion
Co-organizers: Caitlin Wylie, Bryn Seabrook, Ben Laugelli
Purpose: To create and establish and mentoring program for Engineering and Society
Amount received: \$8,400 (budget for 2022-2024) | Submission Date: 9/2/2022

IPE John T. Casteen III Faculty Fellow
STS/MAE 6592: How Engineering Impacts Diversity, Equity, and Inclusion
Amount received: \$6,000 | Submission Date: 4/18/2022

New Frontiers in Research Fund (NFRF) – Transformation Grant
PI: Marcel O’Gorman (University of Waterloo) and network of Canadian universities
US Collaborators and Co-PIs Bryn Seabrook, Kay Neeley and Rider Foley (UVA)
“Engineering Technological Stewardship: Transforming Engineering Culture through
Broad and Pervasive Educational Intervention”
Proposal amount: \$5,000,000 | Submission Date: 07/13/2020

Memberships

Association for Practical and Professional Ethics (APPE)

Society for Ethics Across the Curriculum (SEAC)

Society for Social Studies of Science (4S)

- Council Member, 2019-2022

American Society for Engineering Education (ASEE)

General Faculty Council at the University of Virginia

- Representative for the Engineering School, May 2019 - Present

Student Section of the Society for Social Studies of Science (6S)

- Representative, 2014-2016

STGlobal Consortium

- Faculty Advisor, 2019 - Present
- Conference Co-chair, 2015
- Organizing Committee, STGlobal Science and Technology in Society Graduate Student Conference, 2014

Virginia Tech Graduate Student Organization

- Department of Science and Technology in Society Representative, 2013

Skills

Teaching and curriculum development

Writing and editing

Ethical scientific and document-based research

- Institutional Review Board approval

Proficient in Microsoft Office Suite, Scholar, Canvas, and Collab

Proficient in email communication, blogging, and social media

Microsoft and Macintosh OS literate

References

Dr. Rosalyn Berne

Department Chair, UVA STS

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