

# Michael W. Beach | Curriculum Vitae

Department of Human Centered Design & Engineering  
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## Education

- Sept 2018 - PRESENT **Ph.D. Human Centered Design & Engineering**  
University of Washington, Seattle, WA
- 2014 - 2018 **B.S. Human Centered Design & Engineering**  
**B.A. Comparative History of Ideas**  
University of Washington, Seattle, WA
- 1999 - 2005 **A.A. Psychology**  
State College of Florida-Manatee, Sarasota, FL

## Research

- Mar - June 2021 **Research Assistant (with Tyler Fox) | Sympoietic Speculations**  
University of Washington, Seattle, WA  
Developed F/Actors Workshop, co-designed Speculative Red Cedar Directed Research Group, translated fermentation data into an audio format for the Fermentum project, and participated in Simondon Reading Group.
- Jan - June 2021 **Research Group Co-Facilitator | The UX of Climate Change: Western Red Cedar Dieback | Directed Research Group**  
University of Washington, Seattle, WA  
Co-facilitated research group to conduct user research and rapidly prototype design solutions that will increase community participation in tracking Western red cedar. (WI21 & SP21)
- Oct - Dec 2020 **Research Group Lead Facilitator / Designer | POST(-)HUMAN HAZMAT: Design fiction for multispecies care and collaborative survival in cataclysmic climates | Directed Research Group**  
University of Washington, Seattle, WA  
Facilitated and designed co-design research group to explore and translate more-than-human theories and concepts into practice through more-than-human stories in the form of a zine. To learn more please visit: <https://michaelwbeach.com/posthumanhazmat/>
- June 2019 - Feb 2020 **UI Designer / Frontend Developer Internship (Extended) | Science Capsule**  
Data Science & Technology Department, Lawrence Berkeley National Laboratory, Berkeley, CA  
Designed and developed frontend UI of a web platform for multi-disciplinary scientific stakeholders based on existing user research data. Science Capsule is a tool that collects, annotates, and analyses live data from LBNL's Beamline experiments at the Advanced Light Source facility.
- June 2018 - Feb 2020 **Graduate Research Assistant (with Charlotte P. Lee) | Sociotechnical Design: Creating a Data Repository for the Study of Marine Ecosystems**  
University of Washington, Seattle, WA  
Conducted ethnographic research and drawing on "action research" and participatory design methods to help a multi-disciplinary group of investigators and scientific stakeholders come together to design and develop shared understandings, priorities, practices, methods, software tools, and computer architectures that will lead to the development of a data repository.
- 2015 - Feb 2020 **Research Assistant (with Charlotte P. Lee) | Model of Coordinated Action (MoCA)**  
University of Washington, Seattle, WA  
Developed a theoretical framework to define and describe coordinated-action. Conducting a retrospective content analysis of CSCW (Computer-Supported Cooperative Work).

# Teaching Experience

- (Upcoming) **Instructor**  
Spring 2022 **HCDE 318 A: Introduction to User-Centered Design**  
Instructor on Record (IoR), Department of Human-Centered Design and Engineering, University of Washington  
Undergraduate-level course on the user-centered design paradigm, with an emphasis on the importance of developing and applying design processes and strategies.
- Winter 2022 **Instructor**  
**HCDE 451 A: UX Prototyping Techniques**  
Instructor on Record (IoR), Department of Human-Centered Design and Engineering, University of Washington  
Taught an undergraduate-level course on prototyping techniques. Iterated upon the previous course offering, incorporated ethical & theoretical consideration to provide more situated and embodied contexts for evaluation. Designed and facilitated hybrid (remote and in-person) design activities and critique. Graded assignments and gave feedback to students on their prototyping projects: developing success metrics for evaluation goals, user tests, analysis, and iteration. Student prerequisite: HCDE 318
- Autumn 2021 **Teaching Assistant**  
**HCDE 501 B: Theoretical Foundations Of Human Centered Design And Engineering**  
Sucheta Ghoshal, Ph.D; Assistant Professor; Department of HCDE; University of Washington  
Assisted a masters-level course on theoretical foundations of HCDE. Graded assignments and gave feedback to students on their usability research projects.
- Summer 2021 **Teaching Assistant**  
**HCDE 501 A: Theoretical Foundations Of Human Centered Design And Engineering**  
Kristin Dew, Ph.D; Lecturer; Department of HCDE; University of Washington  
Assisted a masters-level course on theoretical foundations of HCDE. Graded assignments and gave feedback to students on their usability research projects.
- Winter 2021 **Teaching Assistant**  
**HCDE 210 AB & AC: Explorations In Human Centered Design (HCD)**  
Kathryn E Shroyer; IoR; Department of Human-Centered Design and Engineering; University of Washington  
Led two undergraduate-level design studios. Led collaborative sprint-style design activities. Helped students overcome obstacles in learning HCD concepts and methods. Gave feedback and graded assignments.
- Autumn 2020 **Teaching Assistant**  
**HCDE 518 AD: User-Centered Design**  
Sarah Coppolla, Ph.D; Lecturer; Department of Human-Centered Design and Engineering; University of Washington  
Assisted a masters-level course on user-centered design. Graded assignments and gave feedback to students on their user-centered design projects.
- Summer 2020 **Teaching Assistant**  
**HCDE 501 A: Theoretical Foundations Of Human Centered Design And Engineering**  
Kristin Dew, Ph.D; Lecturer; Department of Human-Centered Design and Engineering; University of Washington  
Assisted a masters-level course on theoretical foundations of HCDE. Graded assignments and gave feedback to students on their usability research projects.
- Spring 2020 **Teaching Assistant**  
**HCDE 210 A: Explorations In Human Centered Design (HCD)**  
Mitchell Fajardo, Instructor on Record, Department of Human-Centered Design and Engineering, University of Washington  
Led an undergraduate-level design studio. Led collaborative sprint-style design activities. Helped students overcome obstacles in learning HCD concepts and methods. Gave feedback and graded assignments.
- Winter 2020 **Teaching Assistant**  
**HCDE 517 B: Usability Studies**  
Kristin Dew, Ph.D; Lecturer; Department of Human-Centered Design and Engineering; University of Washington  
Assisted a masters-level course on usability research. Graded assignments and gave feedback to students on their usability research projects.
- Autumn 2019 **Teaching Assistant**  
**HCDE 451 A: UX Prototyping Techniques**  
Andy Davidson, Senior Lecturer, Department of Human-Centered Design and Engineering, University of Washington  
Assisted an undergraduate-level course on prototyping techniques. Graded assignments and gave feedback to students on their prototyping projects.

## Publications

- (Accepted) 2022 **Beach, Michael W.**, and Tyler Fox. "Value Sensitive Speculative Design: Exploring More-Than-Human Relations in the Age of Climate Catastrophe." *IxD&A* 51 (2022). (Accepted, forthcoming)
- November 2021 Ghoshal, Devarshi, Ludovico Bianchi, Abdelilah Essiari, Drew Paine, Sarah S. Poon, **Michael W. Beach**, Alpha T. N'Diaye, Patrick Huck, and Lavanya Ramakrishnan. "Science Capsule: Towards Sharing and Reproducibility of Scientific Workflows." In *2021 IEEE Workshop on Workflows in Support of Large-Scale Science (WORKS)*, pp. 66-73. IEEE, 2021. ([PDF](#))
- July 2021 Ghoshal, Devarshi, Ludovico Bianchi, Abdelilah Essiari, **Michael W. Beach**, Drew Paine, and Lavanya Ramakrishnan. "Science Capsule-Capturing the Data Life Cycle." *Journal of Open Source Software* 6, no. 62 (2021): 2484. ([PDF](#))
- April 2021 Jones, Ridley, **Michael W. Beach**, Melinda McClure Haughey, Will Sutherland, and Charlotte P. Lee. "Construction of Shared Situational Awareness in Traffic Management." *Proceedings of the ACM on Human-Computer Interaction* 5, no. CSCW1 (2021): 1-27. ([PDF](#))
- January 2021 Neang, Andrew B., Will Sutherland, **Michael W. Beach**, and Charlotte P. Lee. "Data Integration as Coordination: The Articulation of Data Work in an Ocean Science Collaboration." *Proceedings of the ACM on Human-Computer Interaction* 4, no. CSCW3 (2021): 1-25. ([PDF](#))

## Panels

- Nov. 8, 2019 Fox, T., **Beach, M.W.**, Heidi Biggs, and Audrey Desjardins (2019). Speculative Design in Climactic Times. Session 13G: Roundtable. Society for Literature, Science, and the Arts (SLSA), University of California, Irvine.
- Nov. 9, 2019 **Beach, M.W.**, Muindi, M., Young, J., Johnson, G., Sha, X. et al. (2019). Legacies of Cybernetics. Session 19I: Roundtable. Society for Literature, Science, and the Arts (SLSA), University of California, Irvine.

## Talks & Presentations

- Feb. 16, 2022 Invited talk: **Beach, M.W.** (2022). "Introduction to Value Sensitive Design and Value Scenarios." DTP Researcher's Quarterly v-team at Microsoft. Seattle, WA.
- Mar. 30, 2021 **Beach, M.W.** (2021). "Speculative Value Scenarios: Crafting More-Than-Human Stories in Human-Computer Interaction." Geek/Art CONfluence Panel: "Meta!" Syracuse University, NY. "Crippling" the Comic Con, aka CripCon.
- Feb. 15, 2019 **Beach, M.W.** (2019). Emergent Techno-Botanical Networks: Paracosmic Dreams and Speculative Methods. 3rd Annual Post-Human Network Graduate Student Conference "Legacies of Cybernetics", Arizona State University, Tempe AZ. February 14-16 2019.

## Workshops

- Oct 1, 2021 **Beach, M.W. (chair)**, Uppugonduri, A., Sakrison, A., Muindi, M., Johnson, G. (2021). "Becoming Possibilities: An Exploration of Boundaries, Barriers, and Potentials of Energy through Gilbert Simondon's Notion of Anxiety." Society for Literature, Science, and the Arts (SLSA), University of Michigan, Ann Arbor. ([Link to program on EasyChair website](#))
- Nov. 8, 2019 **Beach, M.W.** and Fox, T. (2019). "Speculative Transduction: A Speculative Workshop for Iterating Our Way Through Climate Catastrophe." Society for Literature, Science, and the Arts (SLSA), University of California, Irvine.
- Oct. 26, 2018 Thurtle, P., Mengist, N., and **Beach, M.W.** (2018). "Envisioning Other Worlds: The Place of World Building in a Liberal Arts Education." Comparative History of Ideas (CHID), University of Washington & Center for Philosophical Technologies, Arizona State University. Oct. 26, 2018, Seattle, WA.

## Professional Experience

- 2012 - 2017 **Designer / Front-End Developer**  
Team Bubbly  
Digital production agency based in New York City, NY  
Designed, developed mobile & web experiences. Worked closely with marketing specialists, photographers, copywriters, editors, and print houses remotely. Team Bubbly clients include: Esquire, BMW, Nike, Gucci  
TeamBubbly.com/
- 2007 - 2012 **Designer / Front-End Developer**  
Seagrape Studios  
Self-owned and operated mobile & web design company based in San Francisco, CA and Boston, MA  
Designed, developed mobile & web experiences. Worked closely with marketing specialists, photographers, copywriters, editors, and print houses remotely. Clients include: Liancarlo, Rock Paper Photo, Reality Pictures, Whole Child Action.

## Extra Curricular

- SPRING 2018 **Lead & Facilitator of Focus Group**  
Focus Group: Ethical Design Thinking & Practice  
Comparative History of Ideas - University of Washington, Seattle, WA  
Lead and Facilitator of Focus Group to ideate, discover, plan, design, prototype, evaluate, and iterate on our creations using reflective practices and value sensitive design methodologies.
- 2015 - 2017 **Curriculum Committee Member**  
Comparative History of Ideas Curriculum Committee  
Comparative History of Ideas - University of Washington, Seattle, WA

## Awards

- 2020 **Travel Award, CSCW Conference**  
Computer Supported Cooperative Work, (virtual conference)  
\$106 funding to attend research conference
- 2019 **Travel Award, SLSA Conference**  
Society for Literature, Science, and the Arts, University of California (Irvine)  
\$706 travel funding to attend research conference
- 2018 **Travel Award, PHuN Conference**  
Post-Human Network, Arizona State University (Tempe)  
\$445 travel funding to attend research conference
- 2018 **Travel Award, CSCW Conference**  
New York City's Hudson River (Jersey City)  
\$316 travel funding to attend research conference
- 2018 **CHID Research Award, Focus Group**  
University of Washington, Seattle, WA  
\$250 funding to design and facilitate Ethical Design Thinking & Practice focus group