

Education

- Aug 2019 **Harvard University Graduate School of Design, Cambridge MA**
- May 2021 Master in Design Studies (Technology Concentration)
- Aug 2010 **Yale University, New Haven CT**
- May 2014 B.A. Architecture (Design Concentration)

Design Experience

- Nov 2021 **Aurelia Institute, Cambridge MA**
- Present Co-Founder & Chief Design Officer
- Leads branding, digital strategy, and architectural design at Aurelia Institute: a nonprofit architecture R&D lab, education and outreach center, and policy hub dedicated to building and scaling humanity's future in space.
- Nov 2018 **MIT Space Exploration Initiative (SEI), MIT Media Lab, Cambridge MA**
- Present Designer / Research Affiliate
- Contributes design and research expertise across the Initiative's portfolio. Currently leads research and conducts astronaut interviews for SEI's Astronaut Ethnography project, develops generative designs for space architectures, and prototypes artifacts for microgravity environments.
- Jun 2020 **Broad Institute of MIT and Harvard, Cambridge MA**
- Nov 2021 Consulting Designer
- Developed content strategy, critical flows, high fidelity designs, interaction guidelines, and accessibility design patterns across multiple genomics visualization projects as part of the PATTERN Visualization and Data Science Platform teams at the Broad Institute of MIT and Harvard.
- Aug 2017 **Emerging Technology Experiences, IBM Research, Cambridge MA**
- Jul 2019 Design Researcher / UX Designer
- Designed experiences that engage and educate people on the capabilities of emerging technologies at IBM Research. Developed content and designs for interactive demos on quantum machine learning and generative adversarial networks. Led design teams to create educational and research tools for quantum computing applications, including the IBM Q Composer and Qiskit SDK visualization tools.
- Jul 2016 **Watson for Patient Safety, IBM Watson Health, Cambridge MA**
- Aug 2017 Design Researcher / UX Designer
- Developed user research insights and content-driven designs for *Watson for Patient Safety*, an AI healthcare application created by Watson Health. Facilitated AI + design thinking workshops and provided design consulting services for clinicians, scientists, and executives spanning 4 companies and 5 countries. Conducted contextual inquiry and research sessions with over 80 users and stakeholders.

Fellowships

Jun 2020 **Boston Community Service Fellowship, Boston MA**
- Aug 2020 Design Fellowship

Received fellowship funding through the Harvard GSD Community Service Fellowship program to develop a new genomics data visualization experience for the Broad Institute of Harvard and MIT. Developed a design language and interactive experience prototype informed by user interviews.

Jun 2014 **Yale Center for Engineering Innovation & Design (CEID), New Haven CT**
- Aug 2015 Design Fellowship

Led engineering project teams in two CEID courses, "Medical Device Design & Innovation" and "Appropriate Technology for the Developing World." Conducted design thinking workshops for diverse groups and instructed multidisciplinary teams in human-centered design practices.

Publications & Patents

Jun 2022 **Do Explanations Increase the Effectiveness of AI-Crowd Generated Fake News Warnings?**
Epstein, Z., Foppiani, N., Hilgard, S., Sharma, S., Glassman, E., & Rand, D. Proceedings of the Sixteenth International AAAI Conference on Web and Social Media, Vol. 16, June 2022.

Jul 2021 **Astronaut-in-the-Loop: An Iterative Design Research Framework for Space Environments**
S. Sharma, S. Fish, A. Ekblaw. 50th International Conference on Environmental Systems, July 2021.

May 2021 **How to Understand Your Robot: A Design Space Informed by Human Concept Learning**
S. Booth, S. Sharma, S. Chung, E. Glassman, J. Shah. International Conference on Robotics and Automation (ICRA), May 2021.

Nov 2020 **Astronaut Ethnography: A Design Research Approach to Microgravity**
S. Sharma, S. Fish, A. Ekblaw. 31st IAA SYMPOSIUM ON SPACE AND SOCIETY. Proceedings of the IAF International Astronautical Congress 2020.

Oct 2018 **Tool for understanding and facilitating the construction of quantum computing programs**
S. Sharma et al. Application EP18382686.6, filed October 2018.

Exhibitions & Events

May 2022 **Moderator, New Space Age Astronaut Panel**
Beyond the Cradle Conference, MIT Media Lab 2022

Jul 2021 **Presenter, Session 502-D: Space Architecture**
Intl. Conference on Environmental Systems 2021

Apr 2021 **Solo Exhibition, "Fluid Expressions"**
Kirkland Gallery, Harvard GSD

Nov 2020 **Presenter, Session E5: Space & Society**
IAF International Astronautical Conference 2020

Tools & Skills

Leadership
Cross-functional Team Management, Public Speaking

UX & Visual Design
Adobe CS, Sketch, Invision, Figma, Principle

3D Modeling & Prototyping
Grasshopper/Rhinoceros, 3D Printing, Digital Fabrication

Languages
English, Hindi, C#, HTML/CSS, Javascript, P5.JS