
CURRICULUM VITAE

EDUCATION

- University of Waterloo** Waterloo Jan 2019 – Oct 2025
 Doctor of Philosophy in Human-Computer Interaction (HCI) under the department of Management Science and Engineering. Fully funded through highly competitive merit-based scholarships.
Thesis: Towards Design of Interaction Systems for Constrained Spaces
- Columbia University** New York Sep 2010 – Feb 2012
 Master of Science in Management Science and Engineering
 Elected Graduate Student Speaker at Columbia Engineering Commencement
- National Institute of Technology (Jalandhar)** India Aug 2006 – Jun 2010
 Bachelor of Technology in Industrial Engineering

TEACHING

I have taught nine courses across two departments and three programs, at both undergraduate and graduate levels, in classes of 40 to 180 students. In Global Business and Digital Arts (GBDA), a project-based undergraduate program, I taught the full UX sequence from introductory design to a client-facing capstone where student teams built functional prototypes for external partners. In Management Science and Engineering (MSCI), I taught human-computer interaction and UX analytics to engineering students, and my classes regularly drew students from other faculties; in total I have taught students from nine departments.

GBDA 310: Advanced User Experience Design and Research (Three sections, 179 students) Spring 2024

The course reviews UX and usability methods, and covers topics ranging from contextual inquiry, cognitive task analysis, qualitative methods, and an introduction to quantitative statistical methods.

GBDA 310: Advanced User Experience Design and Research (43 students) Fall 2023

GBDA 410: Seminar in User Experience Research (two sections, 91 students) Fall 2023

The seminar-style course is designed to cover an emerging UX research area through self-driven student work. Students will build a more comprehensive understanding of a UX research area and explore evidence-based UX research methods and techniques. Focus area: Virtual Reality.

MSCI 543: Analytics and User Experience (87 students) Spring 2023

This course provides students with an in-depth understanding of methods for evaluating the user experience on a large scale. Students learnt how to design user experiments that involve the collection and analysis of large quantities of data online, apply useful metrics for evaluating the user experience, and use this analysis to inform their designs of software and technology.

MSCI 630: Human-Computer Interaction (47 students) Winter 2023

This course concentrates on the theoretical and practical issues related to the design of the human-computer interfaces. Aspects of human perception, cognition and various models of task analysis are discussed. Further, the course examines the principles of interface design and the related empirical evidence

GBDA 402: Undergraduate Capstone Seminar (46 students) Winter 2023

In this capstone course students research, design, and adapt digital products and services to suit specific cultures or

communities. They work with external stakeholders, such as global industry consultants, community clients, and mentors, to iteratively develop and create functional design solutions that are economically and socially feasible. This is a 12-credit course (other courses are 3 credits.)

MSCI 630: Human-Computer Interaction (39 students)

Winter 2022

GBDA 402: Undergraduate Capstone Seminar (66 online and 75 in person)

Winter 2022

GBDA 210: Introduction to UX (54 students)

Fall 2021

In this course students learn the basic principles and practices of user experience design. They learn how to plan and implement, digital design applications, focusing both on functionality and on the quality of the user's interaction with these technologies.

WORK EXPERIENCE

Independent Researcher

Aug 2025 – Present

Following the completion of my PhD,

- *A government foreign policy think-tank*: Led a team of policy researchers and analysts to design the national data trading policy for India:
 - o Collaborated with leaders from various ministries, trade groups, and other stakeholders to balance economic value creation with sovereignty and regulatory stability.
 - o Partnering with senior government officials and industry leaders to define governance models, implementation roadmaps, and cross-ministerial coordination mechanisms.
 - o Expanded to building policy briefs for other frontier tech.
- *A national level design firm*:
 - o Directed strategic content and exhibits on data, cybersecurity, and AI for a government ministry, showcasing India's digital leadership at a high-level national event.
 - o Co-presented to the Prime Minister, President, and senior dignitaries, positioning India's data and AI capabilities as pillars of its global strategic narrative.

Sessional Lecturer – University of Waterloo

Waterloo, ON

Aug 2021 – Aug 2024

Taught nine courses to students across three programs. Additional details in the teaching section.

Amazon – Senior Product Manager (Technical), Alexa

Seattle, Remote from Jan '19

Sep 2017 – Nov 2019

Owned Alexa Orchestration and Skill Selection. The product impacted every other part of Alexa (~10,000 developers).

- Collaborated with multiple teams to define features, and built an annual and quarterly roadmap while gaining buy-in with business development, product, UX, and tech teams across Amazon and a few outside Amazon
- Features deployed for over 100 million users from cradle to general availability include:
 - o Links to allow users to talk to two skills or domains within the Alexa ecosystem at one time, this enabled Alexa monetization, routines, multi-skill customer experience among others
 - o Orchestration passthrough to allow users to interact with other voice agents (like Microsoft's Cortana or Facebook's Portal) through Alexa; also enables features like celebrity voices on Alexa
 - o User Perceived Latency enhancements giving other services more bandwidth to enable new experiences
- Owned and managed multiple KPIs and services within the Alexa ecosystem, including twelve SVP level goals

Morgan Stanley – Director

New York

Feb 2015 – Sep 2017

Global Head of Solutions, Legal and Compliance Division (LCD)

Product owner for LCD products that deployed data science and AI models to front-line compliance users

- Envisioned and built a team to create data-oriented products and their service touchpoints within LCD
- Prototyped numerous models (data models and associated UX), optimized, and deployed them

- Along with partners in IT, implemented a Hadoop based data lake for the team
- Owned relationships at the C-suite level and their direct reports across front office, operations, and IT; and represented Morgan Stanley with four US and three international regulators
- Provided thought leadership on data, technology, and analytical methods to the board and industry groups

PwC – Senior Consultant, Advanced Risk and Compliance Analytics New York

Oct 2013 – Feb 2015

Starting as a team lead, grew into the role of a client relationship owner in recognition of analytical and leadership skills. Managed large-scale data analytics teams delivering value to non-technical C-suite clients

- Led a team of eleven executives to resolve a \$600 million regulatory issue for a global bank
- Built and executed the mortgage fees testing strategy for the US Portfolio of a leading bank, and developed the roadmap for integration of the monitoring, compliance testing, and data mining functions
- Analyzed unstructured data to develop and maintain over 30 analytics, reported to regulators weekly
- Automated the end-to-end process of collating and reporting practice metrics internally and to the firm; maintained and enhanced knowledge management activities for a team of 200

Ernst and Young – Staff Consultant, Advisory (Financial Services Office) New York

Jul 2012 – Oct 2013

Contributed to teams for engagements spanning compliance, strategy, and data analytics. Highest revenue in peer group (80% over median), and only resource at my level, or a level higher, to own operational client relationships.

- Built a future state for the entire tax technology for a large US Bank as part of a four-person team
- Led the development of multiple tools (Reg. Z calculator, Fair Lending Risk Assessment Calculator, Basel III reporting solution and action plan inventory database) in MS Excel, Access, VBA, and SQL
- Nine awards for providing exceptional mentorship, engagement excellence and community service leadership

PUBLICATIONS

Refereed Full Papers

P5. Rizvi, A. H. (2026). Embed, don't isolate: Designing holistic dashboards for stigma-sensitive parent communication. In Proceedings of the 2026 ACM Interactive Health Conference (IH '26) (Article 21, pp. 1–6). Association for Computing Machinery. <https://doi.org/10.1145/3786579.3804955>

P4. Rizvi, A. H., & Hancock, M. (2024). Small spaces, many places: A phenomenological analysis of technology-mediated placemaking in small spaces. In Proceedings of the 50th Graphics Interface Conference (GI '24) (Article 29, pp. 1–12). Association for Computing Machinery. <https://doi.org/10.1145/3670947.3670966>

P3. Rizvi, A. H., Morayko, K., Hancock, M., & Song, A. (2021, May). Provocations from # vanlife: Investigating life and work in a community extensively using technology not designed for them. In *Proceedings of the 2021 CHI conference on human factors in computing systems* (pp. 1-16).

P2. Rizvi, A. H., Singh, L. P., & Bhardwaj, A. (2009, August). Human integration matrix: An adaptive framework to enhance human systems integration in new product development. In *PICMET'09-2009 Portland International Conference on Management of Engineering & Technology* (pp. 1989-1997). IEEE.

P1. Rizvi, A. H., & Sachdeva, A. (2009, August). Optimization of retail clusters by improving individual store performance. In *PICMET'09-2009 Portland International Conference on Management of Engineering & Technology* (pp. 650-657). IEEE.

Full Papers Under Review

R2. Rizvi, A. H., Schneider, O., & Hancock, M. Proteus Card Deck: Affordable, Scalable, and Familiar Deck of Electronic Cards. *Submitted to CHI Play 2026 Annual Symposium on Computer-Human Interaction in Play*.

R1. Prakash, M., Sehl S. G., Li Y., Pawar T. S., Rizvi A. H., and MacArthur, C. Designing Supportive Haptic Technologies for NICU Mothers: An Auto-Ethnographic Exploration. *In revisions for submission to DIS 2027 ACM Conference on Designing Interactive Systems*.

Peer-reviewed Workshop Papers

W3. Rizvi, A. H., Schneider, O., & Hancock, M. (2024, October). Proteus Card Deck: Enabling remote play with a

physical card deck. In Companion Proceedings of the 2024 Annual Symposium on Computer-Human Interaction in Play (CHI PLAY Companion '24) (pp. 331–335). Association for Computing Machinery.
<https://doi.org/10.1145/3665463.3678842>

W2. Rizvi, A. H., & Hancock, M. (2021, May). Building an extensible ontology for Voice User Interfaces (VUIs). *2021 CHI conference on human factors in computing systems*.

W1. Rizvi, A. H., & Hancock, M. (2023, October). Considerations for Experimental Design within Funnels. *2023 CSCW Conference On Computer-Supported Cooperative Work And Social Computing*.

Textbook Chapters

AH Rizvi, A/B Testing IRL, Springer, 2026

SCHOLARSHIPS

QEII-GSST (CAD 15,000 per year)	2025
Aapoolcoyuz Biman Memorial Graduate Scholarship in Engineering (CAD 5,000)	2024
Ontario Graduate Scholarship (CAD 15,000 per year)	2023 & 2024
President's Graduate Scholarship (CAD 5,000 per year)	2022 – 2025

SERVICE

Accessibility, Diversity, and Inclusion Committee – Elected Member (University of Waterloo Games Institute)	Jan 2021 – Aug 2022
Program Committee , Understanding + Evaluating UX Outcomes at Scale, workshop in <i>CSCW 2024</i>	Oct 2023
Local Arrangements Chair , ChiPlay 2023, UWaterloo Stratford Campus	Oct 2023
Outstanding Reviewing Awards (CSCW, CHI, CUI)	Ongoing

BOARD MEMBERSHIPS

Board of Directors: AMJ Capital San Francisco Partner in a diversified venture fund	Feb 2021 – Present
Treasurer: Conestoga Sailing Club Waterloo Elected treasurer on the board of the non-profit Conestoga Sailing Club	Oct 2020 – Nov 2022

PROFESSIONAL CERTIFICATIONS

Commercial Pilot – Transport Canada	Oct 2019 – Current
Commercial Pilot – US Federal Aviation Administration	Jan 2019 – Current
Instrument Pilot – US Federal Aviation Administration	Nov 2018 – Current
Ground Instructor – US Federal Aviation Administration	Dec 2018 – Current
Rescue Diver – PADI	Nov 2016 – Current