

Alexandra W.D. Bremers, Ph.D.

Cornell Tech (NYC), Cornell University

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I am available for my next R&D role in AI and Robotics, starting July 2026, no sponsorship needed.

Human-AI Interaction researcher & designer with 9+ years of experience spanning academia and industry. PhD graduate from Cornell Tech (defended April 2026), with prior R&D roles at Walt Disney Imagineering, Accenture Labs, Toyota Research Institute, and Jaguar Land Rover. Combines expertise in UX research, intelligent systems prototyping, and design to build user-centered AI applications inside complex business environments. Recognized with competitive fellowships and leading publications (incl. IJHCS, IROS, CHI).

EDUCATION

- 2020-2026 **Ph.D. in Information Science**, Cornell University, New York, NY, USA
Dissertation: "Towards Mixed-Initiative Machines for Creative Tasks."
Committee: Dr. Wendy Ju (chair), Dr. Francois Guimbretiere, Dr. Steve Marschner (Comp.Sci. minor).
- 2016-2018 **M.S. in Artificial Intelligence**, Utrecht University, The Netherlands
- 2013-2016 **B.S. in Industrial Design**, Eindhoven University of Technology, The Netherlands

SKILLS

ML & Data: Python (proficient), R (advanced), OpenCV, Jupyter, Docker, AWS S3, dataset curation

Software & Platforms: git, Unity, Arduino, Jetson Nano, Microsoft Psi, HoloLens, Figma, Streamlit, Qualtrics, LaTeX, Adobe Creative Suite, Empatica; C++ (basic), HTML/CSS (basic)

Research Methods: experimental design, statistical analysis, mixed methods, user studies (N=20-50+), stakeholder interviews, research strategy

Design: UI/UX prototyping (low- to high-fidelity), wireframing, interaction design, storyboarding

General: self-directed project management, cross-functional collaboration, writing, mentoring, public speaking

Languages: Dutch (native), English (proficient)

EMPLOYMENT HISTORY

- 2020- **Graduate Assistant**, Cornell University, New York, NY, USA
- Led & published team research projects funded by Amada, Toyota (TRI), Accenture, Nissan, NSF
 - Prototyped interactive systems (Arduino, Jetson Nano, HoloLens, Unity, Python, Microsoft Psi)
 - Qualitative research including brainstorming, interviews and field visits (Adobe CS, Figma, Miro, Atlas.ti)
 - Designed and ran quantitative surveys (Qualtrics) and performed statistical analysis (R, Python)
 - Student supervision, TA for 6 master's level classes, public speaking to various audiences

- 2025 (summer) **Research Intern (R&D Lab Associate)**, Walt Disney Imagineering, Glendale, CA, USA
- Delivering low to high fidelity UI prototypes for creativity support software (Figma, Python, Streamlit)
 - Stakeholder interviewing & consulting to advise on UX/UI pain points and opportunities
 - Outlining strategy for UX/UI of digital collaboration software ecosystem across Imagineering
- 2023 (summer) **Research Intern (Associate Principal)**, Accenture Labs (R&D), San Francisco, CA, USA
- Designed and engineered Wizard-of-Oz task assistance system using Raspberry Pi and cameras
 - Experimental design of in-person lab study, analyzed data with R, and presented at ACM CUI 2024
- 2021 (summer) **Research Intern**, Toyota Research Institute, Los Altos, CA, USA (*remote*)
- Analyzed and visualized a street image dataset (Git, Jupyter, Docker, S3, Python, R, OpenCV)
- 2017–2020 **Human-Machine Interface Researcher**, Jaguar Land Rover, Coventry, UK
- Led 2 research collaborations with Cambridge University, resulting in 2 journal articles
 - Developed protocols and conducted HCI/human factors studies on the bench, simulator, and on-road
 - Designed HMI research prototypes using Adobe CS and Arduino for internal demonstrations
 - Delivered reports on GDPR and human factors to Product Engineering, informing product requirements
 - Collaborated in cross-functional teams using Jira/Confluence, Rational Rhapsody and MS Office
 - Oxford-Cambridge Rising Women in Science and Engineering, Global Finalist in Tata and JLR Innovista
- 2017 (summer) **Research Intern**, NTU IoX Center, National Taiwan University, Taipei, Taiwan
- Designed a smart home user interface and used it as a probe for semi-structured qualitative interviews
- 2015 (fall) **Industrial Design Intern**, Next Nature Network, Amsterdam, Netherlands
- Used Arduino to program a remote-controlled RGB LED ring for a smart belt prototype
 - Managed exhibits at Dutch Design Week and trade shows (logistics, graphic design and presenting)

SELECTED HONOURS & AWARDS

- Honors & Awards Royal Commission of 1851 Industrial Fellowship (2020), £90,000
 PhD Fellowship (University of Cambridge, Engineering Department). Declined in order to accept Cornell offer.

SELECTED PUBLICATIONS (SEE [GOOGLE SCHOLAR](#))

- Selected Articles (Peer-Reviewed) **Alexandra Bremers**, Maria Teresa Parreira, Xy Fang, Natalie Friedman, Adolfo Ramirez-Aristizabal, Alexandria Pabst, Mirjana Spasojevic, Mike Kuniavsky, Wendy Ju. “The Bystander Affect Detection (BAD) dataset for failure detection in HRI”. In: *2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. 2023. DOI: <https://doi.org/10.1109/IR0S55552.2023.10342442>.
- Alexandra W.D. Bremers**, Ali Özgür Yöntem, Kun Li, Daping Chu, Valerian Meijering, Christian P. Janssen. “Perception of Perspective in Augmented Reality Head-Up Displays”. In: *International Journal of Human-Computer Studies* (2021), p. 102693. ISSN: 1071-5819. DOI: <https://doi.org/10.1016/j.ijhcs.2021.102693>.