

Katelyn C. Morrison

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EDUCATION

08/2021 – 04/2026	Carnegie Mellon University Ph.D. in Human-Computer Interaction '26 M.S. in Human-Computer Interaction '24	Pittsburgh, PA
08/2018 – 05/2021	University of Pittsburgh B.S. in Computer Science Certificate in Sustainability	Pittsburgh, PA
08/2017 – 05/2018	Moravian College General Studies	Bethlehem, PA

EXPERIENCE

05/2025 – 08/2025	IBM Research Human-Centered Generative AI Research Intern (with Djallel Bouneffouf, Maria Chang, Michael Muller, and Justin Weisz)	Cambridge, MA
05/2024 – 08/2024	IBM Research Human-Centered Generative AI Research Intern (with Zahra Ashktorab and Justin Weisz) [S.3, W.3]	Yorktown Heights, NY
05/2022 – 08/2022	Microsoft Research Research Intern (with Shamsi Iqbal and Eric Horvitz) [C.3]	Remote
05/2021 – 08/2021	Microsoft Research Undergraduate Research Intern (with David Rothschild)	Remote

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

- [S.1] **Katelyn Morrison**, Zexuan Li, Malia Hong, Jidapa Krajangka, Charles Fauvel, Priscilla Correa-Jaque, Rebecca Vanderpool, Shili Lin, Sandeep Sahey, Allen Everett, Manreet Kanwar, Ray Benza, and Adam Perer. "It's Not Just for Trust: Designing for Alternative Uses of Explainable AI in Clinical Decision-Making". Under review at *ACM Transactions on Computing for Healthcare (HEALTH '26)*.
- [S.2] **Katelyn Morrison**, Arpit Mathur, Aidan Bradshaw, Tom Wartmann, Steven Lundi, Afroz Zandifar, Weicheng Dai, Kayhan Batmanghelich, Motahhare Eslami, and Adam Perer. "A Human-Centered Approach to Identifying Promises, Risks, & Challenges of Text-to-Image Generative AI in Radiology". Under review at *AAAI/ACM Conference on AI, Ethics, and Society (AIES '25)*. Madrid, Spain.
- [S.3] **Katelyn Morrison**, Gabriel Enrique Gonzalez, Zahra Ashktorab, Matt Reimer, Djallel Bouneffouf, Andrew Anderson, Justin D. Weisz. "On the Same Wavelength: The Impact of Mutual Theory of Mind on Human-AI Teams". Under review at *AAAI/ACM Conference on AI, Ethics, and Society (AIES '25)*. Madrid, Spain.
- [S.4] Seyun Kim, **Katelyn Morrison**, Motahhare Eslami and Haiyi Zhu. How Breast Cancer AI Risk Tools Are Used, Interpreted, and Repurposed in the Clinical Ecosystem. Under review at *AAAI/ACM Conference on AI, Ethics, and Society (AIES '25)*. Madrid, Spain.
- [S.5] Philipp Spitzer, Joshua Holstein, **Katelyn Morrison**, Kenneth Holstein, Gerhard Satzger, and Niklas Kühl. "Don't be Fooled: The Misinformation Effect of Explanations in Human-AI Collaboration". Under review at *International Journal of Human-Computer Interaction (IJHCI)*.
- [S.6] Philipp Spitzer, **Katelyn Morrison**, Violet Turri, Michelle Feng, Niklas Kühl, and Adam Perer. "Imperfections of XAI: Phenomena Influencing AI-Assisted Decision-Making". Under review at *ACM Transactions on Interactive Intelligent Systems (TIIS)*.

- [C.1] Aidan Bradshaw, **Katelyn Morrison**, Arpit Mathur, Weicheng Dai, Kayhan Batmanghelich, Motahhare Eslami, and Adam Perer. **Toward Interpretable 3D Diffusion in Radiology: Token-Wise Attribution for Text-to-CT Synthesis**. In *Medical Imaging with Deep Learning (MIDL '25)*; Short Papers Track. Salt Lake City, Utah.
- [J.1] Yanwu Xu, Li Sun, Wei Peng, Shuyue Jia, **Katelyn Morrison**, Adam Perer, Shyam Visweswaran, Motahhare Eslami, and Kayhan Batmanghelich. **"MedSyn: Text-guided Anatomy-aware Synthesis of High-Fidelity 3D CT Images"**. *IEEE Transactions on Medical Imaging (T-MI '24)*.
- [C.2] Violet Turri*, **Katelyn Morrison***, Katherine-Marie Robinson, Collin Abidi, Adam Perer, Jodi Forlizzi, Rachel Dzombak. **"Transparency in the Wild: Navigating Transparency in a Deployed AI System to Broaden Need-Finding Approaches"**. In *ACM Conference on Fairness, Accountability, and Transparency (FAccT '24)*. Rio de Janeiro, Brazil.
- [C.3] **Katelyn Morrison**, Shamsi Iqbal, and Eric Horvitz. **"AI-Powered Reminders for Collaborative Tasks: Experiences and Futures"**. In *ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '24)*. San Jose, Costa Rica.
- [C.4] **Katelyn Morrison***, Philipp Spitzer*, Violet Turri, Michelle Feng, Niklas Kühl, and Adam Perer. **"The Impact of Imperfect XAI on Human-AI Decision-Making"**. In *ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '24)*. San Jose, Costa Rica.
- [C.5] **Katelyn Morrison**, Mayank Jain, Jessica Hammer, and Adam Perer. **"Eye into AI: Evaluating the Interpretability of Explainable AI Techniques through a Game With a Purpose"**. In *ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '23)*. Minneapolis, Minnesota.
- [C.6] **Katelyn Morrison**, Donghoon Shin, Kenneth Holstein, and Adam Perer. **"Evaluating the Impact of Human Explanation Strategies on Human-AI Visual Decision-Making"**. In *ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '23)*. Minneapolis, Minnesota.

WORKSHOPS, ABSTRACTS, & POSTERS

W=WORKSHOP, A=ABSTRACT/POSTER, S=IN SUBMISSION

- [W.1] Philipp Spitzer, Matthias Baldauf, Philippe Palanque, Virpi Roto, **Katelyn Morrison**, Dominique Zipperling, Joshua Holstein. **"Hybrid Automation Experiences—Communication, Coordination, and Collaboration within Human-AI Teams"**. In *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '25)*. Yokohama, Japan.
- [W.2] Venkatesh Sivaraman*, **Katelyn Morrison***, Will Epperson*, and Adam Perer. **"Over-Relying on Reliance: Towards Realistic Evaluations of AI-Based Clinical Decision Support"**. In *Workshop on Envisioning the Future of Interactive Health at (CHI '25)*. Yokohama, Japan.
- [W.3] **Katelyn Morrison**, Zahra Ashktorab, Djallel Bouneffouf, Gabriel Enrique Gonzalez, Justin D. Weisz. **"Establishing the Cooperative Game Wavelength as a Testbed to Explore Mutual Theory of Mind"**. In *Advancing Artificial Intelligence through Theory of Mind (ToM4AI) Workshop at (AAAI '25)*. Philadelphia, PA.
- [W.4] **Katelyn Morrison**, Philipp Spitzer, Michelle Feng, Violet Turri, Niklas Kühl, and Adam Perer. **"Imperfect Natural Language Explanations in Human-AI Decision-Making"**. In *Trust and Reliance in Evolving Human-AI Workflows (TREW) Workshop at (CHI '24)*. Honolulu, Hawaii.
- [W.5] **Katelyn Morrison**, Ankita Mehra, and Adam Perer. **"Shared Interest...Sometimes: Understanding the Alignment between Human Perception, Vision Architectures, and Saliency Map Techniques"**. In *XAI4CV at the Conference on Computer Vision and Pattern Recognition (CVPR)*. Vancouver, Canada. **Spotlight Talk**.
- [W.6] Vivek Aswal*, Gore Kao*, Seo Young Kim*, and **Katelyn Morrison***. **"Towards Generating Human-Centered Saliency Maps without Significantly Sacrificing Accuracy"**. In *NeuroVision Workshop at (CVPR '22)*. New Orleans, Louisiana.
- [W.7] **Katelyn Morrison**, Benjamin Gilby, Colton Lipchak, Adam Mattioli, and Adriana Kovashka. **"Exploring Corruption Robustness: Inductive Biases in Vision Transformers and MLP-Mixers"**. In *Workshop on Uncertainty & Robustness in Deep Learning (ICML '21)*. Remote.
- [W.8] **Katelyn Morrison**. **"Reducing Discrimination in Learning Algorithms for Social Good in Sociotechnical Systems"**. In *AI for Social Good Workshop at (IJCAI-PRICAI '20)*. Remote.
- [W.9] **Katelyn Morrison**, Daniel Yates, Maya Roman, and William W. Clark. **"Using Object Tracking Techniques to Non-Invasively Measure Thoracic Rotation Range of Motion"**. In *Adjunct Proceedings of the ACM International Conference on Multimodal Interaction (ICMI '20)*. Utrecht, The Netherlands (Remote).

INVITED TALKS

- 03/2025 **Opportunities and Challenges in Designing Text-to-Image Generative AI for Medical Education, Training, and Practice**
Carnegie Mellon University Human-Robot Interaction Reading Group (in-person)
- 02/2024 **The Paradox of Transparency Mechanisms in AI-Assisted Decision-Making**
Department of Homeland Security Advanced Computing Branch (remote)
Host: Krishnamurthy Vemuru
- 02/2024 **The Impact of Imperfect XAI on Human-AI Decision-Making**
Explainable AI Slack Group Talk Series (remote; co-presented with Philipp Spitzer)
- 10/2023 **Evaluating the Impact of Human Explanation Strategies on Human-AI Visual Decision-Making**
Explainable AI Slack Group Talk Series (remote)
- 05/2021 **School of Computing & Information Commencement Speaker**
University of Pittsburgh, Peterson Events Center

TEACHING

- 07/2024 **Guest Lecture on Explainable AI in Human-AI Collaboration for Introduction to HCI**
University of Illinois Urbana-Champaign - School of Information Sciences
Instructor: Kyrie Zhixuan Zhou
- 01/2024 – 04/2024 **05-610 User-Centered Research and Evaluation (TA)**
Carnegie Mellon University - Human-Computer Interaction Institute
Instructor: Raelin Musuraca and Hong Shen
- 11/2023 **Guest Lecture on “Interpreting Image Classification Models”**
05-839 Interactive Data Science
Carnegie Mellon University - Human-Computer Interaction Institute
Instructor: Adam Perer
- 08/2023 – 12/2023 **05-839 Interactive Data Science (TA)**
Carnegie Mellon University - Human-Computer Interaction Institute
Instructor: Adam Perer

SERVICE

- Since 2021 **Reviewer**
IJHCI, ACM CSCW, CHI*, FAccT, ISS*, IUI, UIST*, DIS, etc.
* 6 total Special Recognitions for Outstanding Reviews
- 2020 – 2025 **Organizing Committee Member**
CHI 2025 Workshop on Hybrid Automation Experiences, CVPR 2024 XAI4CV Workshop, NeurIPS 2023 Computational Sustainability Workshop, 2020 & 2022 Computational Sustainability Doctoral Consortium
- 2021 – 2023 **Academic Representative**
Dean of the School of Computer Science Undergraduate Research Engagement Working Group
Graduate Student Assembly Representative

MENTORING

- 02/2025 – 08/2025 **Maggie Chen** – Summer Undergraduate Research Fellow
Undergraduate in Computer Science at Carnegie Mellon University
- 01/2025 – 04/2025 **Ray Xia** – Independent Study
Master’s student at the Human-Computer Interaction Institute at Carnegie Mellon University

01/2025 – **Clemence Ingabire** – Visiting Research Assistant
 04/2025 Master’s student in Engineering Artificial Intelligence at Carnegie Mellon University Africa

09/2024 – **Aidan Bradshaw** – Research Assistant
 04/2025 M.S. in Applied Data Science at Carnegie Mellon University; Now Ph.D. student at Northwestern

02/2024 – **Tom Wartmann** – Master’s Thesis
 09/2024 Master’s student in Computer Science at ETH Zurich

01/2024 – **Natalie Sarabosing** – Independent Study
 12/2024 Undergraduate in Computer Science at Carnegie Mellon University

01/2024 – **Chengqi (Malia) Hong** – Independent Study
 08/2024 Master’s student in Design for Interactions at Carnegie Mellon University

01/2024 – **Minsuk Kim** – Independent Study
 05/2024 B.S. in Chemistry and Computer Science at Carnegie Mellon University

01/2024 – **Isabelle Rhee** – Research Assistant
 05/2024 B.S. Computer Science at Carnegie Mellon University

09/2023 – **Ervin Song** – Highway to Undergraduate Research in the Academic Year Recipient
 05/2024 Undergraduate student in Computer Science at Carnegie Mellon University

04/2023 – **Crystal Li** – Research Capstone
 05/2024 B.S. in Computer Science at the University of Pittsburgh

04/2023 – **Zexuan Li** – Research Assistant
 05/2024 B.S. CS at Carnegie Mellon University ’24; Now Ph.D student at University of Michigan

07/2023 – **Kristin Shuyi Han** – Research Assistant
 12/2023 B.S. in Computer Science at University of California San Diego

01/2023 – **Michelle Feng** – Research Assistant
 06/2023 B.S. in Computer Science at Carnegie Mellon University

HONORS & AWARDS

08/2024 – **Digital Health Innovations Fellowship**
 08/2025 Carnegie Mellon University Center for Machine Learning & Health

05/2021 **Most Outstanding Undergraduate Student Award**
 University of Pittsburgh Computer Science Department

01/2021 – **Chancellor’s Undergraduate Research Fellowship**
 05/2021 University of Pittsburgh

10/2019 – **University Innovation Fellowship**
 05/2020 University of Pittsburgh

08/2019 – **United Nations Academic Impact Group Millennium Fellowship**
 12/2019 University of Pittsburgh

SKILLS

Technical: Python (LangChain, Pydantic, PyTorch, Pandas), HTML, JavaScript (Svelte), CSS, Full-Stack Development

Research: Interviews, Surveys, Design probes, Iterative prototyping, Experimental design, Hypothesis testing