

# Katelyn C. Morrison

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## EDUCATION

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

## EXPERIENCE

05/2025 – 08/2025	<b>IBM Research</b> Human-Centered Generative AI Research Intern (with Djallel Bouneffouf, Maria Chang, Michael Muller, and Justin Weisz)	<b>Cambridge, MA</b>
05/2024 – 08/2024	<b>IBM Research</b> Human-Centered Generative AI Research Intern (with Zahra Ashktorab and Justin Weisz) [S.3, W.3]	<b>Yorktown Heights, NY</b>
05/2022 – 08/2022	<b>Microsoft Research</b> Research Intern (with Shamsi Iqbal and Eric Horvitz) [C.3]	<b>Remote</b>
05/2021 – 08/2021	<b>Microsoft Research</b> Undergraduate Research Intern (with David Rothschild)	<b>Remote</b>
05/2020 – 08/2020	<b>In-Q-Tel (IQT) Labs</b> Data Science Intern (with Nina Lopatina)	<b>Remote</b>

## PAPERS IN SUBMISSION

[S.6]	<b>Katelyn Morrison</b> , Zexuan Li, Malia Hong, Jidapa Kraisangka, 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 <i>ACM Transactions on Computing for Healthcare (HEATLH '26)</i> .
[S.5]	<b>Katelyn Morrison</b> , Arpit Mathur, Aidan Bradshaw, Tom Wartmann, Steven Lundi, Afrooz 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 <i>AAAI/ACM Conference on AI, Ethics, and Society (AIES '25)</i> . Madrid, Spain.
[S.4]	<b>Katelyn Morrison</b> , 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 <i>AAAI/ACM Conference on AI, Ethics, and Society (AIES '25)</i> . Madrid, Spain.
[S.3]	Seyun Kim, <b>Katelyn Morrison</b> , Motahhare Eslami and Haiyi Zhu. How Breast Cancer AI Risk Tools Are Used, Interpreted, and Repurposed in the Clinical Ecosystem. Under review at <i>AAAI/ACM Conference on AI, Ethics, and Society (AIES '25)</i> . Madrid, Spain.
[S.2]	Philipp Spitzer, Joshua Holstein, <b>Katelyn Morrison</b> , Kenneth Holstein, Gerhard Satzger, and Niklas Kühl. "Don't be Fooled: The Misinformation Effect of Explanations in Human-AI Collaboration". Under review at <i>International Journal of Human-Computer Interaction (IJHCI)</i> .
[S.1]	Philipp Spitzer, <b>Katelyn Morrison</b> , Violet Turri, Michelle Feng, Adam Perer, and Niklas Kühl. "Imperfections of XAI: Phenomena Influencing AI-Assisted Decision-Making". Under review at <i>ACM Transactions on Interactive Intelligent Systems (TIIS)</i> .

## JOURNAL PAPERS

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- [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**).

## CONFERENCE PAPERS

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- [C.6] 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.
- [C.5] 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.4] **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.3] **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.2] **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.1] **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.

## CLINICAL ABSTRACTS

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- [CA.6] Zexuan Li, **Katelyn Morrison**, Shuyi Han, Jidapa Kraisangka, Charles Fauvel, Priscilla Correa-Jaque, Rebecca Vanderpool, Yongqi Liu, Shili Lin, Adam Perer, Allen Everett, Manreet Kanwar, and Raymond Benza “**Designing and Understanding What-if Explanations in an Interactive Clinical Decision-Support Tool for Pulmonary Hypertension Outcome Risk Assessment and Treatment Guidance**”. In *Pulmonary Vascular Research Institute Annual Congress*. (**PVRI ’24**).

## WORKSHOP PAPERS

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- [W.9] 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.8] 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.7] **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.6] **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.4] 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.3] **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.2] **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.1] **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

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- 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)  
Host: Michelle Zhao
- 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
- 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)  
Host: Nick Kroeger
- 11/2023 **Guest Lecture on “Interpreting Image Classification Models”**  
05-839 Interactive Data Science  
Carnegie Mellon University - Human-Computer Interaction Institute  
Instructor: Adam Perer
- 10/2023 **Evaluating the Impact of Human Explanation Strategies on Human-AI Visual Decision-Making**  
Explainable AI Slack Group Talk Series (remote)  
Host: Nick Kroeger
- 05/2021 **School of Computing & Information Commencement Speaker**  
University of Pittsburgh, Peterson Events Center

## TEACHING

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- 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
- 08/2023 – 12/2023 **05-839 Interactive Data Science (TA)**  
Carnegie Mellon University - Human-Computer Interaction Institute  
Instructor: Adam Perer

## SERVICE

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Since 2021

### Reviewer

IJHCI; AIES; ACM CSCW, CHI\*, FAccT, ISS\*, IUI, UIST\*, DIS, etc.

\* 6 total Special Recognitions for Outstanding Reviews

2020 –

### Organizing Committee Member

2025

CHI 2025 Workshop on Hybrid Automation Experiences, CVPR 2024 XAI4CV Workshop, NeurIPS 2023 Computational Sustainability Workshop, 2020 & 2022 Computational Sustainability Doctoral Consortium

2021 –

### Academic Representative

2023

Dean of the School of Computer Science Undergraduate Research Engagement Working Group  
Graduate Student Assembly Representative

## MENTORING

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02/2025 –

**Maggie Chen** – Summer Undergraduate Research Fellow

08/2025

Undergraduate in Computer Science at Carnegie Mellon University

01/2025 –

**Ray Xia** – Independent Study

04/2025

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

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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**

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

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