

# Katelyn C. Morrison

5000 Forbes Ave  
Pittsburgh, PA 15213, USA

<https://katelyng8.github.io/>  
kcmorris@andrew.cmu.edu

Keywords: Human-AI Collaboration, Decision-Making, Transparency, Responsible AI

## EDUCATION

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08/2021 – 04/2026	<b>Carnegie Mellon University</b> Ph.D. in Human-Computer Interaction '26 M.S. in Human-Computer Interaction '24	Pittsburgh, PA
08/2018 – 05/2021	<b>University of Pittsburgh</b> B.S. in Computer Science '21 Certificate in Sustainability	Pittsburgh, PA
08/2017 – 05/2018	<b>Moravian College</b> General Studies	Bethlehem, PA

## EXPERIENCE

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05/2025 – 08/2025	<b>IBM Research</b> Human-Centered Generative AI Research Intern (with Djallel Bouneffouf, Maria Chang, Michael Muller, and Justin Weisz) [S.5]	Cambridge, MA
05/2024 – 08/2024	<b>IBM Research</b> Human-Centered Generative AI Research Intern (with Zahra Ashktorab and Justin Weisz) [W.7], [S.1]	Yorktown Heights, NY
05/2022 – 08/2022	<b>Microsoft Research</b> Research Intern (with Shamsi Iqbal and Eric Horvitz) [C.4]	Remote
05/2021 – 08/2021	<b>Microsoft Research</b> Undergraduate Research Intern (with David Rothschild)	Remote
05/2020 – 08/2020	<b>In-Q-Tel (IQT) Labs</b> Data Science Intern (with Nina Lopatina)	Remote
08/2018 – 05/2020	<b>University of Pittsburgh Center for Teaching &amp; Learning</b> Maker Space Workshop Lead & Student Technician	Pittsburgh, PA
05/2019 – 08/2019	<b>PPG</b> Software Development Intern	Pittsburgh, PA
06/2018 – 08/2018	<b>iD Tech Camps</b> Tech Camp Course Instructor (Java & Scratch Programming)	Villanova & West Chester Universities

## PAPERS IN SUBMISSION

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- [S.7] **Katelyn Morrison**, Zexuan Li, Malia Hong, Jidapa Kraisangka, Charles Fauvel, Priscilla Correa-Jaque, Rebecca Vanderpool, Shili Lin, Sandeep Sahay, 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 major revisions for *ACM Transactions on Computing for Healthcare (HEALTH '26)*.
- [S.6] Charles Fauvel, Priscilla Jaque, Yongqi Liu, Sang Lee, Sandeep Sahay, Nelson Villasmil, Jason Weatherald, R James White, Allen Everett, Megan Griffiths, Thomas Cascino, Adam Perer, **Katelyn Morrison**, Shili Lin, Michael Lewis, Yuri matusov, and Raymond Benza. "Refining the definition for 'low risk' in pulmonary arterial hypertension: time to reduce morbidity and mortality". Under review at *Journal of the American College of Cardiology (JACC)*.
- [S.5] **Katelyn Morrison**, Gabriel Enrique Gonzalez, Qiaosi Wang, Maria Chang, Michael Muller, Djallel Bouneffouf, and Justin D. Weisz. "The Impact of AI Theory of Mind on Decision Making in Value-Diverse Human-AI Teams". Under review at *ACM Conference on Human Factors in Computing Systems (CHI '26)*. Barcelona, Spain.

- [S.4] Seyun Kim, **Katelyn Morrison**, Nina Tan, Kimberly Turner, Motahhare Eslami and Haiyi Zhu. "AI in Pre-diagnostic Risk Communication: Surfacing Perspectives and Design Considerations in the Context of Breast Cancer". Under review at *ACM Conference on Human Factors in Computing Systems (CHI '26)*. Barcelona, Spain.
- [S.3] Arpit Mathur, **Katelyn Morrison**, Udhirna Krishnamurthy, Jonathan Lai, Sang Wan Lee, Priscilla Correa-Jaque, Shili Lin, Dr Sandeep Sahay, Megan Griffiths, Manreet Kanwar, Allen Everett, Raymond Benza, and Adam Perer. "Progressive Disease Patient Perspectives on AI Survival Assessments: Current Practices, Barriers, and Opportunities". Under review at *ACM Conference on Human Factors in Computing Systems (CHI '26)*. Barcelona, Spain.
- [S.2] Michael Muller and **Katelyn Morrison**. "Parables for Data Work in HCI: Focusing our Data Attention". Under review at *ACM Conference on Human Factors in Computing Systems (CHI '26)*. Barcelona, Spain.
- [S.1] **Katelyn Morrison**, Gabriel Enrique Gonzalez, Zahra Ashktorab, Matt Reimer, Djallel Bouneffouf, Andrew Anderson, and Justin D. Weissz. "On the Same Wavelength: The Impact of Mutual Theory of Mind on Human-AI Teams". In preparation for submission.

## JOURNAL PAPERS

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- [J.3] 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**". In press at *International Journal of Human-Computer Interaction (IJHCI)*.
- [J.2] Philipp Spitzer, **Katelyn Morrison**, Violet Turri, Michelle Feng, Adam Perer, and Niklas Kühl. "**Imperfections of XAI: Phenomena Influencing AI-Assisted Decision-Making**". *ACM Transactions on Interactive Intelligent Systems (TIIS '25)*.
- [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.7] **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**". AAAI/ACM Conference on AI, Ethics, and Society (*AIES '25*). Madrid, Spain.
- [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.1] 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**, Domenique 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 '23)*. 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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- 11/2025 **The Impact of AI Theory of Mind on Decision Making in Value-Diverse Human-AI Teams**  
DDMLab  
Carnegie Mellon University (in-person)  
Host: Jeffrey Flag
- 11/2025 **Guest Lecture on Human-AI Interaction: AI Transparency & Interpretability**  
05-839: Interactive Data Science  
Carnegie Mellon University - Human-Computer Interaction Institute (in-person)  
Instructors: Adam Perer
- 11/2025 **Expanding the Design Space for Explainable AI in Human-AI Interactions**  
BostonCHI (in-person)  
Host: Kashif Imteyaz
- 10/2025 **Towards Impactful Generative AI Tools in Radiology**  
Interactive Visualization & Intelligence Augmentation Lab at ETH Zurich (in-person)  
Host: Prof. Mennatallah El-Assady

10/2025	<b>Guest Lecture on Human-AI Interaction: AI Transparency &amp; Interpretability</b> 05-318: Human-AI Interaction Carnegie Mellon University - Human-Computer Interaction Institute (in-person) Instructors: Motahhare Eslami & Haiyi Zhu
09/2025	<b>Spotlight Talk: Exploring the Impact of Theory of Mind in Human-AI Teams through Cooperative Games and Moral Dilemma Simulations</b> Human-AI Complementarity for Decision Making Academic Workshop Carnegie Mellon University (in-person) Host: Norman Guttron
09/2025	<b>Brainstorming Session Lead: Human-AI Teaming &amp; Complementarity</b> NSF AI Institute for Societal Decision-Making Carnegie Mellon University (in-person) Host: Norman Guttron
03/2025	<b>Opportunities and Challenges in Designing Text-to-Image Generative AI for Medical Education, Training, and Practice</b> Carnegie Mellon University Human-Robot Interaction Reading Group (in-person) Host: Michelle Zhao
08/2024	<b>WICStart Invited Speaker on "My Journey Through Tech as a Woman"</b> University of Pittsburgh - School of Computing & Information (in-person) Host: Mackenzie Ball
07/2024	<b>Guest Lecture on Explainable AI in Human-AI Collaboration</b> IS226: HCI (remote) University of Illinois Urbana-Champaign - School of Information Sciences (remote) Instructor: Kyrie Zhixuan Zhou
02/2024	<b>The Paradox of Transparency Mechanisms in AI-Assisted Decision-Making</b> Department of Homeland Security Advanced Computing Branch (remote) Host: Krishnamurthy Vemuru
02/2024	<b>The Impact of Imperfect XAI on Human-AI Decision-Making</b> Explainable AI Slack Group Talk Series (remote; co-presented with Philipp Spitzer) Host: Nick Kroeger
11/2023	<b>Guest Lecture on "Interpreting Image Classification Models"</b> 05-839 Interactive Data Science (remote) Carnegie Mellon University - Human-Computer Interaction Institute Instructor: Adam Perer
10/2023	<b>Evaluating the Impact of Human Explanation Strategies on Human-AI Visual Decision-Making</b> Explainable AI Slack Group Talk Series (remote) Host: Nick Kroeger
05/2021	<b>School of Computing &amp; Information Commencement Speaker</b> University of Pittsburgh, Peterson Events Center
04/2018	<b>Impact of Signage on First Year Residence Hall Recycling</b> 13th Annual Moravian College Undergraduate Student Scholarship and Creative Endeavors Day

## TEACHING

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01/2024 –	<b>05-610 User-Centered Research and Evaluation - UCRE (TA)</b> Carnegie Mellon University - Human-Computer Interaction Institute
04/2024	Instructor: Raelin Musuraca and Hong Shen
08/2023 –	<b>05-839 Interactive Data Science (TA)</b> Carnegie Mellon University - Human-Computer Interaction Institute
12/2023	Instructor: Adam Perer
08/2020 –	<b>CS-0011 Introduction to Computing for Scientists (Undergrad TA)</b> University of Pittsburgh - School of Computer & Information
12/2020	Instructor: Matt de Lima Barbosa

## SERVICE

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Since 2021

### Reviewer

IJHCI; ACM AIES, CSCW, CHI\*, FAccT, ISS\*, IUI, UIST\*, DIS, VISxAI, Nature, 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

### Other Service

University of Pittsburgh School of Computing and Information Mentorship Program (2025-26)

Hackathon Judge for the University of Pittsburgh's She Innovates (2024) and SteelHacks (2025)

Vice President of the Women in Computer Science Club (2020-2021)

Northwestern Lehigh High School Makerspace Club Co-Founder (2015)

## MENTORING

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08/2025 –

**Daesung Kim** – Visiting Research Assistant

02/2026

Master's student in Artificial Intelligence at Yonsei University

02/2025 –

**Maggie Chen** – Summer Undergraduate Research Fellow Recipient

*current*

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** – Visiting Research Assistant for Completion of Master's Thesis

09/2024

M.S. 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 the 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
- 02/2020 **Nationality Rooms Study Abroad Scholarship & Pitt Study Abroad Office Scholarship**  
University of Pittsburgh - Canceled due to Pandemic
- 10/2019 **Finalist and Best use for Audio Visualization Award at Dare Mighty Things Hackathon**  
McDonald's Headquarters Chicago
- 10/2019 – **Stanford d.School University Innovation Fellowship**  
05/2020 University of Pittsburgh
- 08/2019 – **United Nations Academic Impact Group Millennium Fellowship**  
12/2019 University of Pittsburgh
- 08/2017 – **Emerging Leaders Scholarship Program**  
05/2018 Moravian College
- 03/2017 **Second Place in Animation Category at the Regional Computer Tech Fair**  
Lehigh Carbon Community College
- 02/2017 **Allentown West Rotary Club Student of the Month**  
Northwestern Lehigh High School

## SKILLS

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**Technical:** Python (LangChain, Pydantic, Pandas), HTML, JavaScript (Svelte), CSS, Full-Stack  
**Research:** Interviews, Surveys, Design probes, Iterative prototyping, Experimental design, Hypothesis testing  
**Languages:** English (native), Spanish (B1)

## REFERENCES

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<b>Adam Perer</b> Ph.D. Advisor adamperer@cmu.edu	<b>Motahhare Eslami</b> Thesis Committee Member meslami@andrew.cmu.edu	<b>Justin Weisz</b> IBM Internship Manager jweisz@us.ibm.com
<b>Raymond Benza</b> Clinical Collaborator RXBENZA@sentrata.com	<b>Eric Horvitz</b> MSR Internship Manager horvitz@microsoft.com	<b>Niklas Kühl</b> Collaborator Kuehl@uni-bayreuth.de