

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

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

PAPERS IN SUBMISSION

[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 <i>ACM Transactions on Computing for Healthcare (HEALTH '26)</i> .
[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 <i>Journal of the American College of Cardiology (JACC)</i> .
[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 <i>ACM Conference on Human Factors in Computing Systems (CHI '26)</i> . 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. Weisz. “On the Same Wavelength: The Impact of Mutual Theory of Mind on Human-AI Teams”. In preparation for submission.

JOURNAL PAPERS

- [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

- [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

- [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

- [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 '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

- 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 **Guest Lecture on Human-AI Interaction: AI Transparency & Interpretability**
05-318: Human-AI Interaction
Carnegie Mellon University - Human-Computer Interaction Institute (in-person)
Instructors: Motahhare Eslami & Haiyi Zhu
- 09/2025 **Spotlight Talk: Exploring the Impact of Theory of Mind in Human-AI Teams through Cooperative Games and Moral Dilemma Simulations**
Human-AI Complementarity for Decision Making Academic Workshop
Carnegie Mellon University (in-person)
Host: Norman Guttrun
- 09/2025 **Brainstorming Session Lead: Human-AI Teaming & Complementarity**
NSF AI Institute for Societal Decision-Making
Carnegie Mellon University (in-person)
Host: Norman Guttrun
- 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
- 08/2024 **WICStart Invited Speaker on “My Journey Through Tech as a Woman”**
University of Pittsburgh - School of Computing & Information (in-person)
Host: Mackenzie Ball
- 07/2024 **Guest Lecture on Explainable AI in Human-AI Collaboration**
IS226: HCI (remote)
University of Illinois Urbana-Champaign - School of Information Sciences (remote)
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 (remote)
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
- 04/2018 **Impact of Signage on First Year Residence Hall Recycling**
13th Annual Moravian College Undergraduate Student Scholarship and Creative Endeavors Day

TEACHING

- 01/2024 – 04/2024 **05-610 User-Centered Research and Evaluation - UCRE (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
- 08/2020 – 12/2020 **CS-0011 Introduction to Computing for Scientists (Undergrad TA)**
University of Pittsburgh - School of Computer & Information
Instructor: Matt de Lima Barbosa

SERVICE

Since 2021

Reviewer

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

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

08/2025 –
02/2026

Daesung Kim – Visiting Research Assistant

Master's student in Artificial Intelligence at Yonsei University

02/2025 –
current

Maggie Chen – Summer Undergraduate Research Fellow Recipient

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 –
04/2025

Clemence Ingabire – Visiting Research Assistant

Master's student in Engineering Artificial Intelligence at Carnegie Mellon University Africa

09/2024 –
04/2025

Aidan Bradshaw – Research Assistant

M.S. in Applied Data Science at Carnegie Mellon University; Now Ph.D. student at Northwestern

02/2024 –
09/2024

Tom Wartmann – Visiting Research Assistant for Completion of Master's Thesis

M.S. in Computer Science at ETH Zurich

01/2024 –
12/2024

Natalie Sarabosing – Independent Study

Undergraduate in Computer Science at Carnegie Mellon University

01/2024 –
08/2024

Chengqi (Malia) Hong – Independent Study

Master's student in Design for Interactions at Carnegie Mellon University

01/2024 –
05/2024

Minsuk Kim – Independent Study

B.S. in Chemistry and Computer Science at Carnegie Mellon University

01/2024 –
05/2024

Isabelle Rhee – Research Assistant

B.S. Computer Science at Carnegie Mellon University

09/2023 –
05/2024

Ervin Song – Highway to Undergraduate Research in the Academic Year Recipient

Undergraduate student in Computer Science at Carnegie Mellon University

04/2023 –
05/2024

Crystal Li – Research Capstone

B.S. in Computer Science at the University of Pittsburgh

04/2023 –
05/2024

Zexuan Li – Research Assistant

B.S. CS at Carnegie Mellon University '24; Now Ph.D student at University of Michigan

07/2023 –
12/2023

Kristin Shuyi Han – Research Assistant

B.S. in Computer Science at the University of California, San Diego

01/2023 –
06/2023

Michelle Feng – Research Assistant

B.S. in Computer Science at Carnegie Mellon University

HONORS & AWARDS

08/2024 – 08/2025	Digital Health Innovations Fellowship Carnegie Mellon University Center for Machine Learning & Health
05/2021	Most Outstanding Undergraduate Student Award University of Pittsburgh Computer Science Department
01/2021 – 05/2021	Chancellor's Undergraduate Research Fellowship 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 – 05/2020	Stanford d.School University Innovation Fellowship University of Pittsburgh
08/2019 – 12/2019	United Nations Academic Impact Group Millennium Fellowship University of Pittsburgh
08/2017 – 05/2018	Emerging Leaders Scholarship Program 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

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

Adam Perer
Ph.D. Advisor
adamperer@cmu.edu

Raymond Benza
Clinical Collaborator
RXBENZA@sentara.com

Motahhare Eslami
Thesis Committee Member
meslami@andrew.cmu.edu

Eric Horvitz
MSR Internship Manager
horvitz@microsoft.com

Justin Weisz
IBM Internship Manager
jweisz@us.ibm.com

Niklas Kühl
Collaborator
Kuehl@uni-bayreuth.de