

Madeleine Grunde-McLaughlin

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EDUCATION

2021-present	Ph.D. Student at the University of Washington, Seattle, WA. <i>Paul G. Allen School of Computer Science & Engineering</i> <i>Co-advised by Jeffrey Heer and Daniel Weld</i>
2016-2021	B.A. at the University of Pennsylvania, Philadelphia, PA. <i>Bachelor of Arts in Cognitive Science with Summa Cum Laude</i> <i>Minors in Computer Science, French</i>
2019	Community Auditing Program at Princeton University, Princeton, NJ. <i>Audited Computer Vision, NLP, Advanced Graph Theory (not for credit)</i>
2019	Study Abroad at Lyon Lumière II, Lyon, France. <i>Courses in French including Neuroscience, Human Computer Interaction, and Memory</i>

PUBLICATIONS

TOCHI 2025	Designing LLM Chains by Adapting Techniques from Crowdsourcing Workflows <i>Madeleine Grunde-McLaughlin, Michelle S Lam, Ranjay Krishna, Daniel S Weld, Jeffrey Heer</i> <i>ACM Transactions on Computer-Human Interaction</i>
TOCHI 2025	Wildfire and Forest Management: Opportunities for HCI Research <i>Nino Migineishvili, Madeleine Grunde-McLaughlin, Emmanuel Azuh, Spencer A Wood, Rene Just, Katharina Reinecke</i> <i>ACM Transactions on Computer-Human Interaction</i>
COLM 2025	Visual Representations inside the Language Model <i>Benlin Liu, Amita Kamath, Madeleine Grunde-McLaughlin, Winson Han, Ranjay Krishna</i> <i>Conference on Language Modeling</i>
CHI 2024	How Do Data Analysts Respond to AI Assistance? A Wizard-of-Oz Study <i>Ken Gu, Madeleine Grunde-McLaughlin, Andrew M McNutt, Jeffrey Heer, Tim Althoff</i> <i>ACM Conference on Human Computer Interaction, 2024</i>
CSCW 2023	Explanations can Reduce Overreliance on AI Systems during Decision-Making <i>Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Ranjay Krishna, Tobias Gerstenberg, and Michael Bernstein</i> <i>ACM Conference on Computer-Supported Cooperative Work and Social Computing, 2023</i>
CVPR 2022	AGQA-Decomp: Measuring Compositional Consistency for Video Question Answering <i>Mona Gandhi, Mustafa Öumer Gul, Eva Prakash, Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala</i> <i>IEEE conference on Computer Vision and Pattern Recognition, 2022</i>
CVPR 2021	AGQA: A Benchmark for Compositional Spatio-Temporal Reasoning <i>Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala</i> <i>IEEE conference on Computer Vision and Pattern Recognition, 2021</i>
InfoVis 2020	Bayesian-Assisted Inference from Visualized Data <i>Yea-Seul Kim, Paula Kayongo, Madeleine Grunde-McLaughlin, Jessica Hullman</i> <i>IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis), 2020</i>

PREPRINTS AND WORKSHOP PAPERS

IUI 2026	RDoFlow: Automatically assessing under-specified statistical analyses in HCI <i>Madeleine Grunde-McLaughlin, Weixuan Liu, Ria Patil, Nino Migeishvili, Emily Reif, Ranjay Krishna, Daniel S. Weld, Jeffrey Heer</i> <i>Conditional Acceptance at the ACM Conference on Intelligent User Interfaces</i>
ArXiv 2025	Magnetic-ui: Towards human-in-the-loop agentic systems <i>Hussein Mozannar, Gagan Bansal, Cheng Tan, Adam Fournier, Victor Dibia, Jingya Chen, Jack Gerrits, Tyler Payne, Matheus Kunzler Maldaner, Madeleine Grunde-McLaughlin, Eric Zhu, Griffin Bassman, Jacob Alber, Peter Chang, Ricky Loynd, Friederike Niedtner, Ece Kamar, Maya Murad, Rafah Hosn, Saleema Amersh</i> <i>ArXiv, July 2025</i>
NAACL 2025	Towards AI-assisted academic writing <i>Daniel J Liebling, Malcolm Kane, Madeleine Grunde-McLaughlin, Ian Lang, Subhashini Venugopalan, Michael Brenner</i> <i>Nations of the Americas chapter of the Association for Computational Linguistics, Workshop on AI and Scientific Discovery</i>
CSCW 2023	Semantic Navigator: Query Driven Active Learning for Historical Narrative Understanding <i>Eva Maxfield Brown, Madeleine Grunde-McLaughlin, Isabelle Pestovski, Lanyi Zhu, Nicholas Weber</i> <i>ACM Conference on Computer-Supported Cooperative Work and Social Computing, Community-Driven AI Workshop, 2023</i>
CHI 2022	When Do XAI Methods Work? A Cost-Benefit Approach to Human-AI Collaboration <i>Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Ranjay Krishna, Tobias Gerstenberg, and Michael Bernstein</i> <i>ACM Conference on Human Computer Interaction, TRAIT Workshop, 2022</i>
ArXiv 2022	AGQA 2.0: An updated benchmark for compositional spatio-temporal reasoning <i>Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala</i> <i>ArXiv, April 2022</i>
ArXiv 2021	Model comparison of the effects of stimulus structure on visual working memory recall <i>Madeleine Grunde-McLaughlin, Cheng Qiu, Alan A Stocker</i> <i>Undergraduate Honors Thesis, April 2021</i>

SELECTED AWARDS AND HONORS

2023	CSCW Best Paper Honorable Mention , awarded to top 23 papers <i>“Explanations can Reduce Overreliance on AI Systems during Decision-Making”</i>
2021	Allen School Computer Science & Engineering Research Fellowship <i>1-year fellowship from the University of Washington Allen School</i>
2021	College Alumni Society Prize in Cognitive Science <i>Awarded to the best Cognitive Science thesis at the University of Pennsylvania</i>
2021	Phi Beta Kappa Honor Society

ACADEMIC SERVICE

2024-present	DUB (Design Use Build) Coordinator, University of Washington <ul style="list-style-type: none">Recruiting, training, and supporting speaker hosts for DUB seminar.Recruiting, training, and supporting DUB Doctoral Colloquium Coordinators.Co-coordinating DUB Community Day and DUB Research Day as Session Chair Organizer.
2025-present	Diverse Genders in Research Student Coordinator, University of Washington <ul style="list-style-type: none">Organizing community-building lunches and external events.
2025-present	New Grad Mentor, University of Washington
2022-2023	<ul style="list-style-type: none">Supporting first year students as they adapt to the PhD program.
2025	Pre-Application Mentoring Service, University of Washington <ul style="list-style-type: none">Mentored four PhD applicants in the application process.Reviewed Statements of Purpose and CVs for multiple editing iterations.
2023-2025	New Grad Mentoring Organizer, University of Washington <ul style="list-style-type: none">Coordinated and matched first-year and older student pairs.Organized quarterly events for all mentors and mentees.
2024	Inaugural para.chi.dub Session Chair Organizer, University of Washington <ul style="list-style-type: none">Defined session chair responsibilities.Coordinated and instructed 3 other session chairs and 15 presenters.Moderated a panel and introduced speakers and sessions.
2024	Visit Days Non-Standard Visitor Coordinator, University of Washington <ul style="list-style-type: none">Organized the schedule and meetings for prospective students visiting at non-standard times.
2023	Visit Days PCS Area HCI Lead Scheduler-in-Chief, University of Washington <ul style="list-style-type: none">Coordinated prospective students visit days scheduling categories.
2023-2024	HCI Seminar Organizer, University of Washington <ul style="list-style-type: none">Coordinated weekly speakers for seminar presentations.
2022-2023	Doctoral Colloquium Coordinator for DUB (Design Use Build), University of Washington <ul style="list-style-type: none">Organized a workshop for Ph.D. students to get feedback on their dissertation plan.Recruited 6 panelists across industry and academia.Coordinated and ran a full-day event in which students present their research and faculty give feedback.
2022-present	Conference Reviewer <ul style="list-style-type: none">Conferences: IUI 2025, CHI 2025, UIST 2025, CHI 2024, UIST 2024, VIS VDS 2024, CSCW 2023, TiiS 2022, UIST 2022Workshops: CHI 2024 Late-Breaking Work, ECCV 2024, TREW 2024, TRAIT 2023, TRAIT 2022

TEACHING AND MENTORING

2025	Mentoring Two undergraduate researchers taking CSE494
2024-2025	Mentoring Weixuan Liu (undergrad) and Ria Patil (undergrad)
2021-2022	Mentoring Mona Gandhi (undergrad), Mustafa Omer Gul (masters), and Eva Prakash (undergrad)
2024, 2025	CSE 442 Data Visualization Teaching Assistant, Professor Jeffrey Heer
2024	CSE 512 Data Visualization Teaching Assistant, Professor Jeffrey Heer

INDUSTRY RESEARCH EXPERIENCE

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| 2025 | Microsoft Research Intern <i>Redmond, Washington</i>
AI Frontiers Group, mentored by Adam Fourney and Saleema Amershni |
| 2023 | Google Student Researcher <i>Seattle, Washington</i>
Google Applied Sciences Group, mentored by Dan Liebling |

TECHNICAL SKILLS

Advanced - Python; Proficient - Pytorch, Tensorflow, HTML/CSS, D3, Flask, Java; Basic - R, React, Idyll