

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 Öümer 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 Migineishvili, Emily Reif, Ranjay Krishna, Daniel S. Weld, Jeffrey Heer</i> <i>Conditional Acceptance at the ACM Conference on Intelligent User Interfaces</i>
ArXiv 2025	Magentic-ui: Towards human-in-the-loop agentic systems <i>Hussein Mozannar, Gagan Bansal, Cheng Tan, Adam Fourney, 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 Amershi</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 , <i>University of Washington</i> <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 , <i>University of Washington</i> <ul style="list-style-type: none">Organizing community-building lunches and external events.
2025-present 2022-2023	New Grad Mentor , <i>University of Washington</i> <ul style="list-style-type: none">Supporting first year students as they adapt to the PhD program.
2025	Pre-Application Mentoring Service , <i>University of Washington</i> <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 , <i>University of Washington</i> <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 , <i>University of Washington</i> <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 , <i>University of Washington</i> <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 , <i>University of Washington</i> <ul style="list-style-type: none">Coordinated prospective students visit days scheduling categories.
2023-2024	HCI Seminar Organizer , <i>University of Washington</i> <ul style="list-style-type: none">Coordinated weekly speakers for seminar presentations.
2022-2023	Doctoral Colloquium Coordinator for DUB (Design Use Build) , <i>University of Washington</i> <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 , <i>Professor Jeffrey Heer</i>
2024	CSE 512 Data Visualization Teaching Assistant , <i>Professor Jeffrey Heer</i>

INDUSTRY RESEARCH EXPERIENCE

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| 2025 | Microsoft Research Intern <i>Redmond, Washington</i>
AI Frontiers Group, mentored by Adam Fourney and Saleema Amershi |
| 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