

Matthew Jörke

EDUCATION

Stanford University // Sep 2020-Present
PhD, Computer Science
Advisors: Prof. James Landay, Prof. Emma Brunskill

University of California, Berkeley // Aug 2015-Dec 2019
BA, Computer Science & BA, Cognitive Science
*with Highest Distinction in General Scholarship
with Honors in EECS (concentration in Cognitive Neuroscience)*

HfG Schwäbisch Gmünd // Feb 2019-Jul 2019
Exchange semester in Interaction Design

CONTACT

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RESEARCH EXPERIENCE

Graduate Research Assistant, Stanford University // Sep 2020-Present
Human-AI interaction & health behavior change, advised by Prof. James Landay, Prof. Emma Brunskill

Research Intern, HUE Group, Microsoft Research // Jun-Sep 2022
Workplace wellbeing, advised by Dr. Gonzalo Ramos, Dr. Jina Suh, Dr. Mary Czerwinski

Undergraduate Research Assistant, School of Information, UC Berkeley // Aug 2019-June 2020
Natural language processing, advised by Prof. David Bamman

Undergraduate Research Assistant, Hybrid Ecologies Lab, UC Berkeley // Feb 2018-Feb 2019
Human-computer interaction, advised by Prof. César Torres, Prof. Eric Paulos

Undergraduate Research Assistant, D'Esposito Lab, UC Berkeley // Mar 2017-May 2018
Cognitive neuroscience, advised by Dr. Justin Riddle, Dr. David Vogelsang, Prof. Mark D'Esposito

PEER-REVIEWED ACADEMIC PUBLICATIONS

* indicates equal contribution

Adaptive Interventions with User-Defined Goals for Health Behavior Change.

Aishwarya Manyam*, **Matthew Jörke***, William Denton, Barbara E. Engelhardt, Emma Brunskill. 2024. *Conference on Health, Inference, and Learning (CHIL '24)*.

"They Make Us Old Before We're Old": Designing Ethical Health Technology with and for Older Adults.

Jianna So, Samantha Estrada, **Matthew Jörke**, Eva Bianchi, Maria Wang, Nava Haghighi, Kristen L. Fessele, James A. Landay, Andrea Cuadra. 2024. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '24)*.

Improving Work-Nonwork Balance with Data-Driven Implementation Intention and Mental Contrasting.

Yasaman S Sefidgar, **Matthew Jörke**, Jina Suh, Koustuv Saha, Shamsi Iqbal, Gonzalo Ramos, Mary Czerwinski. 2024. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '24)*.

A Workshop-Based Method for Navigating Value Tensions in Collectively Speculated Worlds.

Nava Haghighi*, **Matthew Jörke***, Yousif Mohsen, Andrea Cuadra, James A. Landay. 2023. *ACM Designing Interactive Systems Conference (DIS '23)*.

Pearl: A Technology Probe for Machine-Assisted Reflection on Personal Data.

Matthew Jörke, Yasaman S. Sefidgar, Talie Massachi, Jina Suh, Gonzalo Ramos. 2023. *ACM Conference on Intelligent User Interfaces (IUI '23)*.

Explanations Can Reduce Overreliance on AI Systems during Decision-Making.

Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Tobias Gerstenberg, Michael S. Bernstein, Ranjay Krishna. 2023. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '23)*.

User Perceptions of Privacy Interfaces in the Workplace.

Michelle S. Lam, Matthew Jörke, Jennifer King, Nava Haghighi, James A. Landay. 2023. *Design Thinking Research*.

Attending to Long-Distance Document Context for Sequence Labeling.

Matthew Jörke, Jon Gillick, Matthew Sims, David Bamman. 2020. *Findings of the Association for Computational Linguistics: EMNLP 2020*.

Hybrid Microgenetic Analysis: Using Activity Codebooks to Identify and Characterize Creative Process.

César Torres, Matthew Jörke, Emily Hill, Eric Paulos. 2019. *ACM Conference on Creativity & Cognition (C&C '19)*.

NON-ARCHIVAL PUBLICATIONS AND PREPRINTS

Supporting Physical Activity Behavior Change with LLM-Based Conversational Agents.

Matthew Jörke, Shardul Sapkota, Lyndsea Warkenthien, Niklas Vainio, Paul Schmiedmayer, Emma Brunskill, James Landay. 2024. *arXiv preprint (under review)*.

Lessons Learned for Data-Driven Implementation Intentions with Mental Contrasting.

Yasaman S. Sefidgar, Matthew Jörke, Jina Suh, Koustuv Saha, Shamsi Iqbal, Gonzalo Ramos, Mary Czerwinski. 2023. *ACM Conference on Human Computer Interaction, Extended Abstracts (CHI EA '23)*.

Simple Regret Minimization for Contextual Bandits Using Bayesian Optimal Experimental Design.

Matthew Jörke, Jonathan Lee, Emma Brunskill. 2022. *ICML '22 Workshop on Adaptive Experimental Design and Active Learning in the Real World*.

When Do XAI Methods Work? A Cost-Benefit Approach to Human-AI Collaboration.

Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Ranjay Krishna, Tobias Gerstenberg, Michael S. Bernstein. 2022. *CHI '22 Workshop on Trust and Reliance in Human-AI Teams*.

TEACHING EXPERIENCE

Head Teaching Assistant // Spring 2023

Stanford CS 147, *Introduction to Human-Computer Interaction*, Prof. James Landay

Teaching Assistant // Spring 2020

UC Berkeley INFO 159, *Natural Language Processing*, Prof. David Bamman

HONORS, FELLOWSHIPS, AND AWARDS

Hasso Plattner Institute & Stanford Human-Centered AI Fellowship // 2024-present

Stanford McCoy Family Center for Ethics in Society Graduate Student Fellowship // 2023-24

UC Berkeley EECS Honors Program // 2017-19

UC Berkeley Highest Distinction in General Scholarship // 2019

UC Berkeley College of Letters & Science Dean's Honors List // 2015-19

Edward Frank Kraft Award // 2015