

# Matthew Jörke

PhD Candidate, Computer Science

matthewjoerke.com  
joerke@stanford.edu

## EDUCATION

- 2020—present      Stanford University  
PhD Candidate, Computer Science  
*Advisors:* James A. Landay, Emma Brunskill
- 2015—2019      University of California, Berkeley  
BA, Computer Science; BA, Cognitive Science  
with Highest Distinction in General Scholarship  
with Honors in EECS (concentration in Cognitive Neuroscience)
- 2019      Hochschule für Gestaltung Schwäbisch Gmünd  
Exchange Semester in Interaction Design

## RESEARCH EXPERIENCE

- 2025      Apple  
Research Intern  
*Advisors:* Nick Foti, Guillermo Sapiro
- 2022      Microsoft Research  
Research Intern  
*Advisors:* Gonzalo Ramos, Jina Suh, Mary Czerwinski
- 2019—2020      School of Information, UC Berkeley  
Research Assistant  
*Advisors:* Jon Gillick, David Bamman
- 2018—2019      Hybrid Ecologies Lab, UC Berkeley  
Research Assistant  
*Advisors:* Cesar Torres, Eric Paulos
- 2017—2018      D’Esposito Lab, UC Berkeley  
Research Assistant  
*Advisors:* Justin Riddle, David Vogelsang, Mark D’Esposito
- 2016      Knight Lab, UC Berkeley  
Undergraduate Research Apprenticeship Program  
*Advisor:* Ignacio Saez

## PUBLICATIONS

\* indicates equal contribution

### Peer-Reviewed Academic Publications

- CHI '26      Bloom: Designing for LLM-Augmented Behavior Change Interactions.  
Matthew Jörke, Defne Genç\*, Valentin Teutschbein\*, Shardul Sapkota, Sarah Chung, Paul Schmiedmayer, Maria Ines Campero, Abby C. King, Emma Brunskill, James A. Landay. 2026. *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*.  
🏆 Best Paper Award (Top 1%)
- CHI '25      GPTCoach: Towards LLM-Based Physical Activity Coaching.  
Matthew Jörke, Shardul Sapkota, Lyndsea Warkenthien, Niklas Vainio, Paul Schmiedmayer, Emma Brunskill, James A. Landay. 2025. *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems*.
- AAAI '25      Cost-Aware Near-Optimal Policy Learning.  
Joy He-Yueya, Jonathan Lee, Matthew Jörke, Emma Brunskill. 2025. *Proceedings of the AAAI Conference on Artificial Intelligence*.
- CHIL '24      Adaptive Interventions with User-Defined Goals for Health Behavior Change.  
Aishwarya Mandyam\*, Matthew Jörke\*, William Denton, Barbara E. Engelhardt, Emma Brunskill. 2024. *Proceedings of Machine Learning Research: Conference on Health, Inference, and Learning*.
- CSCW '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. *Proceedings of the ACM on Human-Computer Interaction, Volume 8, Issue CSCW2*.  
🏆 Best Paper Honorable Mention Award (Top 3%)
- 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. *Proceedings of the ACM on Human-Computer Interaction, Volume 8, Issue CSCW2*.
- DIS '23      A Workshop-Based Method for Navigating Value Tensions in Collectively Speculated Worlds.  
Nava Haghighi\*, Matthew Jörke\*, Yousif Mohsen, Andrea Cuadra, James A. Landay. 2023. *Proceedings of the 2023 ACM Designing Interactive Systems Conference*.
- IUI '23      Pearl: A Technology Probe for Machine-Assisted Reflection on Personal Data.

Matthew Jörke, Yasaman S. Sefidgar, Talie Massachi, Jina Suh, Gonzalo Ramos. 2023. *Proceedings of the 28th International Conference on Intelligent User Interfaces*.

- CSCW '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. *Proceedings of the ACM on Human-Computer Interaction, Volume 7, Issue CSCW1*.  
🏆 Best Paper Honorable Mention Award (Top 3%)
- Findings of EMNLP '20 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*.
- C&C '19 Hybrid Microgenetic Analysis: Using Activity Codebooks to Identify and Characterize Creative Process.  
Cesar Torres, Matthew Jörke, Emily Hill, Eric Paulos. 2019. *Proceedings of the 2019 Conference on Creativity and Cognition*.

#### Nonarchival Papers, Preprints, and Book Chapters

- CHI '23 Extended Abstracts 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. *Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems*.
- Design Thinking Research User Perceptions of Privacy Interfaces in the Workplace.  
Michelle S. Lam, Matthew Jörke, Jennifer King, Nava Haghighi, James A. Landay. 2023. *Design Thinking Research: Innovation—Insight—Then and Now*.
- ICML '22 Workshop Simple Regret Minimization for Contextual Bandits Using Bayesian Optimal Experimental Design.  
Matthew Jörke, Jonathan Lee, Emma Brunskill. *ICML Workshop on Adaptive Experimental Design and Active Learning in the Real World*.
- CHI '22 Workshop When Do XAI Methods Work? A Cost-Benefit Approach to Human-AI Collaboration.  
Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Tobias Gerstenberg, Michael S. Bernstein, Ranjay Krishna. 2022. *CHI Workshop on Trust and Reliance in AI-Human Teams*.

#### RESEARCH MENTORSHIP

\* indicates co-authorship on publications

2025—present William Fang (MS)

|           |                            |
|-----------|----------------------------|
| 2024—2025 | Defne Genç* (MS)           |
| 2024—2025 | Sarah Chung* (MS)          |
| 2024—2025 | Valentin Teutschbein* (BS) |
| 2024      | Andrew Sung (BS)           |
| 2024      | Bryant Jimenez (BS)        |
| 2023—2024 | Lyndsea Warkenthien* (MS)  |
| 2023—2024 | William Denton* (BS/MS)    |
| 2023      | Anthony Xie (BS)           |
| 2023—2024 | Niklas Vainio* (BS/MS)     |
| 2023      | Niall Kehoe (BS)           |
| 2023—2024 | Romuald Thomas (BS/MS)     |
| 2023—2024 | Taylor Givens (BS)         |
| 2022      | Rachel Ka Hei Wu (BS)      |
| 2022      | Nahum Maru (BS)            |
| 2021—2022 | Roland Martinez Luna (BS)  |
| 2021—2023 | Yousif Mohsen* (BS)        |
| 2021      | Luke Mann (BS)             |
| 2021      | Rishi Sreekanth (BS)       |

## GRANTS, FELLOWSHIPS, AND AWARDS

|              |   |
|--------------|---|
| 2024—present | Hasso Plattner Institute & Stanford Human-Centered AI Fellowship        |
| 2024         | Best Paper Honorable Mention, ACM CSCW (top 3% of papers)               |
| 2023—2024    | Stanford McCoy Center for Ethics in Society Graduate Student Fellowship |
| 2023—2024    | Stanford HAI Seed Grant   |
| 2023         | Best Paper Honorable Mention, ACM CSCW (top 3% of papers)               |
| 2021—2022    | Hasso Plattner Design Thinking Research Program Research Grant          |
| 2021—2022    | Stanford Ethics, Society, and Technology Hub Seed Grant                 |
| 2017—2019    | UC Berkeley EECS Honors Program   |
| 2015         | Edward Frank Kraft Award  |

## TEACHING

|      |   |
|------|---|
| 2026 | Head Course Assistant<br>Stanford CS 234: Reinforcement Learning<br><i>Instructor:</i> Emma Brunskill                               |
| 2023 | Project Mentor<br>CS 342/MED 253: Building for Digital Health<br><i>Instructors:</i> Oliver Aalami, Paul Schmiedmayer, Vishnu Raavi |
| 2023 | Head Course Assistant<br>Stanford CS 147: Introduction to Human-Computer Interaction<br><i>Instructor:</i> James Landay             |

|      |  |
|------|--|
| 2020 | Teaching Assistant<br>UC Berkeley Info 159: Natural Language Processing<br><i>Instructor: David Bamman</i>                                     |
| 2019 | Workshop Instructor<br>HfG Schwäbisch Gmünd, Internet of Things Department<br>Invited to teach a three-part workshop on AI for design students |

**REVIEWING**

|           |                |
|-----------|----------------|
| 2023—2025 | CHI            |
| 2025      | Nature         |
| 2025      | IUI            |
| 2025      | CSCW           |
| 2024      | IMWUT          |
| 2024      | IEEE Pervasive |
| 2022      | UIST           |

**SERVICE**

|                         |   |
|-------------------------|---|
| 2025—present            | Recovery Companion Foundation, Board Member     |
| 2022—2024, 2025—present | Stanford HCI Lunch (Co-)Organizer               |
| 2020, 2021, 2025        | Stanford Student Application Support (Reviewer) |
| 2023                    | IUI Conference Student Volunteer                |
| 2020—2022, 2025         | Stanford CS Undergraduate Mentoring Program     |
| 2020—2022               | Stanford Computing & Society Co-Organizer       |