

# Suhaib Abdurahman

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Google Scholar Profile

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<b>EDUCATION</b>	<b>PhD Social Psychology (University of Southern California)</b> <i>expected 2026</i> Advisor: Morteza Dehghani Focus: Theory-Based Computational Social Psychology
	<b>M.A. Psychology (University of Southern California)</b> 2023 Focus: Computational Methods in Social Psychology
	<b>B.S. Psychology (FU Berlin)</b> 2021
	<b>M.S. Energy and Process Engineering (TU Berlin)</b> 2021 Focus: Process Optimization and Control
	<b>B.S. Energy and Process Engineering (TU Berlin)</b> 2018
<b>RESEARCH TOPICS</b>	Psychology of AI, Multi-Agent LLM Systems, Online Behavior Analytics, Decision-Making, Misinformation & Conflicts, Mental Health & Technology
<b>RESEARCH METHODS</b>	Natural Language Processing, Machine Learning, Behavioral Experiments, Agent-based Modeling, Multilevel Modeling, Bayesian Statistics, Predictive Modeling
<b>RESEARCH EXPERIENCE</b>	<b>Research Assistant (University of Southern California)</b> 2021 - present <i>Dr. Morteza Dehghani (Morality &amp; Language Lab)</i> <ul style="list-style-type: none"><li>• Published four papers in high-impact journals</li><li>• Applied NLP and machine learning on large-scale misinformation and mental health datasets</li><li>• Integrated agent-based modeling and LLMs to simulate and study complex social phenomena, such as intergroup conflicts</li><li>• Designed and executed multiple complex behavioral studies on topics related to misinformation, moral behavior, and intergroup conflicts</li></ul> <b>Visiting Predoctoral Fellow (Kellogg School of Management)</b> 2024 <i>Dr. Nour Kteily</i> <ul style="list-style-type: none"><li>• Applied advanced statistical methods to analyze social media behavior in large-scale #MeToo datasets</li><li>• Designed and implemented NLP pipelines for large-scale scientific experiments</li><li>• Developed a multi-agent LLM framework to simulate realistic human behaviors</li></ul> <b>Research Assistant (TU Berlin)</b> 2020-2021 <i>Dr. Kraume &amp; M.Sc. Joschka Schulze</i> <ul style="list-style-type: none"><li>• Developed an NLP pipeline to automate finding and analyzing research papers on interfacial effects in disperse multi-phase systems</li></ul>

- Identified over 50 relevant papers and conducted a meta-analysis of surfactants' influence on interfacial effects

#### Visiting Student (UPenn)

2019-2020

*Dr. Sudeep Bhatia & Dr. Lyle Ungar*

- Published in top computer science conference proceeding (ACL) and top psychology journal (JPSP)
- Investigated representations of psychological constructs in LLM embeddings
- Designed and executed behavioral and computational experiments
- Built predictive machine learning models based on findings.

#### Undergraduate Research Assistant (FU Berlin)

2018-2021

*Dr. Philipp Schäpers & Dr. Helén Lieberman*

- Investigated the predictive validity of job-postings for future work experiences using NLP and machine learning
- Designed and executed behavioral experiments regarding humor and individual trait preferences in first-contact situations
- Built predictive models based on findings

**PUBLICATIONS** **Abdurahman, S.\***, Atari, M.\*, Karimi-Malekabidi, F., Trager, J., Park, P, Xue, J., Dehghani, M. (2024). Perils and Opportunities in Using Large Language Models in Psychological Research. *PNAS Nexus*

**Abdurahman, S.**, Reimer, N.K., Golazizian, P., Baek, E., Shen, Y., Trager, J., Lulla, R., Kaplan, J., Parkinson, C., Dehghani, M. (2024). Targeting Audiences' Moral Values Shapes Misinformation Sharing. *Journal of Experimental Psychology: General*

**Abdurahman, S.\***, Vu, H.\*, Zou, W., Ungar, L., & Bhatia, S. (2023). A Deep Learning Approach to Personality Assessment: Generalizing Across Items and Expanding the Reach of Survey-Based Research. *Journal of Personality and Social Psychology*

Preston, E. G., **Abdurahman, S.**, Woodward, D. W., & West, A. E. (2023). Sharing is in fact about caring: Care concerns feature prominently in subreddits devoted to self-injurious thoughts and behaviors. *Computers in Human Behavior*, 145, 107786.

Vu, H.\*, **Abdurahman, S.\***, Bhatia, S., & Ungar, L. (2020). Predicting responses to psychological questionnaires from participants' social media posts and question text embeddings. *Findings of the Association for Computational Linguistics: EMNLP 2020*, 1512–1524.

#### WORKING PAPERS

**Abdurahman, S.**, Ziabari, A. S., Moore, A., Bartels, D., & Dehghani, M. (2024, April 22). Evaluating Large Language Models in Psychological Research: A Reporting Guideline. (Under revision, *AMPPS*, 2024)

Osborne, M., **Abdurahman, S.**, Omrani, A., Trager, J., Dehghani, M. (2024) Two Wrongs Is What Makes It Right: How Retaliatory Incivility Garners Social Rewards (Under review, *JPSP*)

Trager, J., Karimi-Malekabadi, F., **Abdurahman, S.**, & Dehghani, M. (2024). Ideological Threat Influences Political Prejudice: Evidence from Tweets and Real World

Events (Under review, Political Psychology)

**Abdurahman, S.**, Jordan, J., Omrani, A., Kteily, N., & Dehghani, M. (2024). Proportionality and Ambiguity in Public Condemnation: Evaluating Social Media Responses to Third-Party Accusations (Manuscript in Preparation)

**Abdurahman, S.**, & Dehghani, M. (2024). Exploring Social Dynamics Through Multi-Agent LLM Systems (Manuscript in Preparation)

**CONFERENCES** **Abdurahman, S.**, Reimer, N. K., Golazizian, P., Baek, E., Shen, Y., Trager, J., Lulla, R., Kaplan, J., Parkinson, C., Dehghani, M. (2024). Investigating the Impact of Targeting Audiences' Moral Values on Sharing Online-Misinformation. SPSP

**Abdurahman, S.**, Vu, H., Zou, W., Ungar, L., Bhatia, S. (2024). A Deep Language Approach to Personality Assessment: Generalizing Across Items and Expanding the Reach of Survey-Based Research. SPSP

Preston, E., **Abdurahman, S.** (2023). Sharing is in Fact about Caring: Care Concerns Feature Prominently on Subreddits Devoted to Self-Injurious Thoughts and Behaviors. SPSP

Osborne, M., **Abdurahman, S.**, Trager, J., Omrani, A., Dehghani, M. (2022). Fighting Fire with Fire: How groups incentivize incivility on social media platforms. Psychology of Technology

Osborne, M., **Abdurahman, S.**, Omrani, A. (2022). Responding to Wrongdoing: Status Conferral in Online Conflicts. Media & Technology Preconference @ SPSP

## PROJECTS

**Master's Thesis:** *Morteza Dehghani (University of Southern California)*  
How Misinformation Exploits Moral Values and Framing: Insights from Social Media Platforms and Behavioral Experiments

**Master's Thesis:** *Joschka Schulz & Matthias Kraume (TU Berlin)*  
An exemplary study on automated categorisation and evaluation of peer-reviewed scientific literature concerning interfacial effects in disperse multi-phase systems

**Bachelor's Thesis:** *Philipp Schäpers & Stefan Krumm (FU Berlin)*  
Predicting Job-Ratings from Job-Postings using Natural Language Processing: A Machine Learning Approach to Understanding Corporate Language

**Bachelor's Thesis:** *Lia Strenge & Jörg Raisch (TU Berlin)*  
Model Identification for Designing a PWM-based Solar Charge Controller

## INDUSTRY EXPERIENCE

**Management Assistant, MicroEnergy International GmbH** 2018 - 2019

- Developed code to automate internal processes, e.g. creating financial reports.
- Analyzed operational procedures and presented findings to senior management.

## RELATED SKILLS

Python, R, C, JavaScript, MATLAB, SQL  
Machine Learning, Data Analytics, and NLP (sklearn, pytorch, tensorflow, mongodb)  
Statistics (multivariate regression, structural equation modeling, time series analysis)

<b>FELLOWSHIPS AND GRANTS</b>	USC PhD Academy Research Grant	2024
	ERP Fellowship	2022
	Ernst-Reuter Fellowship	2019
	Avicenna Fellowship	2018
	Avicenna Fellowship	2015

**SERVICE**

- *Conference Review*  
Cognitive Science Society (CogSci) 2022
- *Journal Review*  
Computers in Human Behavior  
Behavior Research Methods  
Advances in Methods and Practices in Psychological Science  
Frontiers in Social Psychology
- *Departmental Service*  
Graduate Student Mentorship Program Coordinator

**LANGUAGES**

- English (Fluent)
- German (Fluent)
- Tigrinya (Heritage)