# Suhaib Abdurahman

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| **EDUCATION** | **PhD Social Psychology (USC)** | *expected 2026* |
| | Advisor: Morteza Dehghani | |
| | Focus: Theory-based computational social psychology | |

**B.S. Psychology (FU Berlin)**                                                      2021
Focus: Computational Methods in Social Psychology

**M.S. Energy and Process Engineering (TU Berlin)**                     2021
Focus: Process Optimisation

**B.S. Energy and Process Engineering (TU Berlin)**                      2018
Focus: Control Systems

**RESEARCH Topics**

Morality & Values, Social Media & Online Behavior, Conflicts & Misinformation, Computational Social Science, Psychology of AI

**RESEARCH Methods**

Natural Language Processing, Machine Learning, Agent-based Modelling, Multilevel Modelling, Bayesian Modelling, Behavioral Experiments

**RESEARCH EXPERIENCE**

**Graduate Researcher (USC)**                                                   2021 - present
Dr. Morteza Dehghani (Morality & Language Lab)
- Combined behavioral experiments with advanced computational methods to investigate complex social phenomena
- Applied NLP, machine learning, and agent-based modeling to study misinformation and mental health related behavior
- Designed and executed multiple complex behavioral studies on topics related to misinformation and intergroup conflicts

**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

**PUBLICATIONS** **Abdurahman, S.\***, Vu, H.\*, Zou, W., Ungar, L., & Bhatia, S. (in press). 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.**, Reimer, N.K., Golazizian, P., Baek, E., Shen, Y., Trager, J., Lulla, R., Kaplan, J., Parkinson, C., Dehghani, M. (2023). Moral Alignment Shapes Responses to Shared Content. (Under review, Nature Human Behavior)

Osborne, M., **Abdurahman, S.**, Omrani, A., Trager, J., Dehghani, M. (in preparation). Status-Conferral through norm violations: a large-scale analysis of inter-group conflicts online

**CONFERENCES**

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

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

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

**Projects**

**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.

**FELLOWSHIPS AND GRANTS**

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| ERP Fellowship | 2022 |
| Ernst-Reuter Fellowship | 2019 |
| Avicenna Fellowship | 2018 |
| Avicenna Fellowship | 2015 |

**RELATED SKILLS**

*Programming Languages:* Python, R, C, JavaScript, MATLAB
Machine Learning and Data Analytics (sklearn, keras, pandas, pytorch, etc.)

**LANGUAGES**

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