Justus Mattern

justus.mattern@rwth-aachen.de | justusmattern.github.io

EDUCATION

RWTH Aachen University   **Aachen, Germany**
Bachelor of Science in Computer Science   *October 2020 - Today*

TU Darmstadt   **Darmstadt, Germany**
Enrollment in BSc. Physics while attending high school, GPA: 1.3 (scale: 1.0-6.0)   *February 2020 - August 2020*

Bachgauschule   **Babenhausen, Germany**
Abitur (high school), GPA: 1.0 (scale: 1.0-6.0)   *August 2017 - June 2020*

WORK EXPERIENCE

DynamoFL (YC W22)   **San Francisco, USA**
Engineering Intern: Personalized federated learning for speech recognition   *August 2022 - November 2022*

ETH Zürich   **Zurich, Switzerland**
Research Intern: Causal inference for NLP and AI safety   *December 2021 - July 2022*

SAP Security Research   **Karlsruhe, Germany**
Research Intern: Differentially private synthetic data generation   *May 2021 - November 2021*

RWTH Aachen University   **Aachen, Germany**
Research Assistant: Psycholinguistically inspired NLP   *February 2021 - May 2021*

PwC   **Frankfurt, Germany**
Data Science Intern: Text mining in financial services   *October 2020 - February 2021*

PUBLICATIONS

[5]   Differentially Private Language Models for Secure Data Sharing.
        J. Mattern, Z. Jin, B. Weggenmann, B. Schölkopf*, M. Sachan*
        EMNLP 2022

[4]   The Limits of Word Level Differential Privacy.
        J. Mattern, B. Weggenmann, F. Kerschbaum
        Findings of NAACL 2022

[3]   Measuring the Impact of (Psycho-)Linguistic and Readability Features and Their Spill Over Effects on the Prediction of Eye
        Movement Patterns
        D. Wiechmann, Y. Qiao, E. Kerz, **J. Mattern**
        ACL 2022

[2]   DP-VAE: Human-Readable Text Anonymization for Online Reviews with Differentially Private Variational Autoencoders
        B.Weggenmann*, V. Rublack*, M. Andrejczuk*, **J.Mattern***, F. Kerschbaum
        WWW 2022

[1]   FANG-COVID: A New Large-Scale Benchmark Dataset for Fake News Detection in German.
        J. Mattern, Y. Qiao, E. Kerz, D. Wiechmann, M. Strohmaier
        Fourth Workshop on Fact Extraction and VERification (FEVER) at EMNLP 2021