

Dennis Assenmacher

Curriculum vitae

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Personal Information

Name Dennis Assenmacher
Nationality German

Academic Background

- Since November 2021 **PostDoc**
PostDoc at GESIS, Leibniz Institute for Social Sciences. Department of Computational Social Science. Team Data Science Methods. Project: *Digital Dehumanization: Measurements, Exposure and Prevalence*
- 2021 **Ph.D. (Dr.rer.pol)**
Ph.D. studies in Information Systems at the Chair of Data Science: Statistics and Optimization, University of Münster
Cumulative Dissertation: *Data Analytics for Harmful Online Communication in Social Media*
- 2017 **Master of Science**
Information Systems at University of Münster
Master Thesis: *Multiobjective Genetic Stream Clustering - Applying MOCK to Statistic Summaries*
- 2014 **Bachelor of Science**
Information Systems at University of Münster
Bachelor Thesis: *Aggregating, Analyzing and Archiving Data of Sequential Processes in the Field of Automated Carbon Fiber Composites Manufacturing*

Professional Experience

- Since 2021 PostDoc at GESIS, Leibniz Institute for Social Sciences. Department of Computational Social Science. Team Data Science.
- 2017 – 2021 Research Associate at the Chair of Data Science: Statistics and Optimization, University of Münster.
- 2016 – 2017 Student Assistant at the Chair of Data Science: Statistics and Optimization, University of Münster.
- 2013 – 2016 Student Assistant at the Chair of Information Systems and Information Management, University of Münster.

Participation in Third-Party Projects

- 2023 HYBRIDS: Hybrid Intelligence to monitor, promote and analyse transformations in good democracy practices (Funding: Marie Skłodowska-Curie Actions)
- 2019-2021 MODERAT!/: Reducing the moderation effort of user comments through automation using text analytical methods (Funding: European Regional Development Fund)
- 2018-2019 DemoRESILdigital: Democratic Resilience in Times of Online Propaganda, Fake News, Fear and Hate Speech (Funding: Ministry of Culture and Science of North Rhine-Westphalia. Project Lead: Dr. Lena Frischlich)
- 2017-2019 Propstop: Detection, Evidence and Counteraction of Covert Propaganda Attacks via New Online Media - Subproject: Coordination of Simulation, Detection, and Defense against Covert Propaganda Attacks. (Funding: Federal Ministry of Education and Research)

Involvement in Third-Party Project Acquisition

- 2022-2023 Not one bit sexist: A competitive game for counterfactuals against sexist language (Funding: Meta/Facebook)
- 2021 Detection and Analysis of Social Bots in 2021. Funding: Federal Ministry of the Interior (Funding: Federal Ministry of the Interior, Building and Community)
- 2020-2021 Detection and classification of malicious virtual grassroots influence campaigns. Australia (Funding: German Academic Exchange Service)
- 2017 Validation of automated detection of social bots. Funding: Federal Ministry of the Interior (Funding: Federal Ministry of the Interior, Building and Community)

Scientific Engagement

- Reviewer Data Mining and Knowledge Discovery, Machine Learning, Neurocomputing, Journal of Computational Social Science, International Journal of Communication, Social Science Computer Review, PLOS ONE, EPJ Data Science, IEEE Transactions on Evolutionary Computation, ICWSM, Multidisciplinary International Symposium on Disinformation in Open Online Media (MISDOOM)
- Moderator Session Moderation: Abusive Language Detection and Comment Moderation in the TAILOR Theme Development Workshop: AI: Mitigating Bias & Disinformation (2022)
- Track Chair HCI International 2020, Special Track: Data, Algorithms, and Humans in Digital Manipulation
- Member European Research Center for Information Systems (ERCIS) Competence Center Social Media Analytics
WWU Topical Program Algorithmization and Social Interaction

Teaching

Lectures

- 2017 – 2020 Data Analytics 1 (Lecture and Tutorial)
- 2017 – 2020 Data Analytics 2 (Lecture and Tutorial)
- SS 2018 Information Security (Lecture and Tutorial)
- 2017/2019 Data Science Module II in the Continuing Education Program in Information Management

Seminars

- SS 2021 MODERAT! Go-Live (Project Seminar)
- SS 2020/WS 2021 Comment.AI Analytics (Project Seminar)
- WS 2019 Natural Language Processing in Online Media (Seminar)
- SS 2019 Community Management for Online Media (Advanced Module)
- WS 2017 Deep Learning (Project Seminar)
- WS 2017 Statistical Methods in Retail (Seminar)

Thesis Supervision

- 2023 Improving German Comment Moderation Models by Data Debiasing (L. Moldon)
- 2022 Detecting Coordinated User Groups through Textual Stream Clustering (S. Korfhage)
- 2021 Conceptualization and Implementation of a Visualization Tool for Textual Stream Clustering (L. Schmidt)
- 2020 Anomaly Detection in Maverick Buying - An NLP-based Approach (L. Seeger)
- 2019 Evaluation of Content Generation for Social Networks with Generative Adversarial Nets (H. Janßen)
- 2018 Information Technology Trends and Their Impact on Companies (M. Treus)

Languages

- German Native
- English Fluent (both spoken and written)
- French Basic knowledge

Skills

- Proficient in programming languages: Python, Java, C++, and R
- Strong knowledge of machine learning techniques (supervised and unsupervised), with a focus on natural language processing
- Good understanding of database technologies: PostgreSQL, MySQL, and Microsoft Access
- Proficient in typesetting with \LaTeX and MS Office

Awards and Scholarships

- Best Paper Award Best Paper Award at the Workshop on Novel Evaluation Approaches for Text Classification Systems on Social Media (2023)

DAAD Scholarship Funding by the German Academic Exchange Service: Research scholarship for doctoral students (2021)

Best Bachelor's Thesis zeb Award for the best Bachelor's thesis in Information Systems (2014)

Publications

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Citations 430 (Dec, 2023)

Google Scholar