

Julian Dehne | Resume

Learning Technologies and Computational Social Sciences

Status: Research Software Engineer, GESIS

Field: Software Engineering, Social Sciences, Education

Techs: Python, Scala, Java, R, Transformers

Cologne, Germany

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Summary

I am a Researcher and Engineer at GESIS - Leibniz Institute for the Social Sciences, with a strong background in developing open science platforms, research software, and tools to enhance reproducibility and data quality in social sciences. My current role involves leading a software project to create an Open Science platform with reusable code and tutorials, alongside conducting research on data quality standards and implementing automated tools for quality data checks.

Previously, I worked as a Postdoctoral Researcher at the University of Göttingen, focusing on social media deliberation, conducting human-in-the-loop experiments with platforms like Reddit and Twitter, and applying NLP techniques in Python. At Humboldt University Berlin, I researched text-based creativity detection using machine learning and analyzed large datasets from E-learning platforms.

I completed my Ph.D. at the University of Potsdam, where I developed methods for group formation, built a semantic database of learning goals, and created a framework for inquiry-based learning and evaluation methodologies for learning technologies. My expertise spans natural language processing, machine learning, data quality, and educational technologies.

Experience

Research Software Engineer - GESIS - Leibniz Institute for the Social Sciences	May 2024 - Present
* Development Lead of a project to build an Open Science platform with reusable code and tutorials	
* Research on Data Quality Standards	
* Implementation of tools to enhance reproducibility and facilitate research with automated quality data checks	
Post Doctoral Researcher - University of Göttingen	Aug. 2021 - May 2024
* Substitute Project Coordination	
* Development Lead of the Delab-Framework	
* Research on Deliberation on Social Media	
* Constructing Human-In-The-Loop Experiments with Reddit and Twitter, NLP with Python	
Post Doctoral Researcher - Humboldt University Berlin	Apr. 2020 - Feb. 2021
* Developing new methods to detect creativity in texts	
* Gathering and analyzing large datasets from E-learning Platforms	
Ph.D. Candidate - University of Potsdam	Oct. 2014 - Oct. 2020
* Lead Developer of a Framework for Inquiry Based Learning	
* Developing Algorithms to support Group Formation	
* Construction of a Semantic Database of Learning Goals	
* Developing a Methodology for the Evaluation of E-Learning	
* Co-Write Project Proposals and Reports	
* Active Member of the GI Junior Researcher Group	

Education

Ph.D. in Computer Science - Potsdam, Germany

Nov. 2014 - Sep. 2020

* Thesis: Possibilities and Limitations of Media Support for Inquiry-Based Learning

* Explores the use of computer technology to support inquiry-based learning in higher education

BA and MA in Computer Science, Political Science and Education - Potsdam, Germany

Okt. 2009 - Okt. 2014

* Thesis: An Intelligent Competence Database

* Implementation and Evaluation of a Learning Outcome Storage connected to Portfolio Learning

BA in European Studies - Passau, Germany

April. 2007 - Sep. 2009

* Thesis: Innenpolitische Bedingtheit europäischer Migrationspolitik

* Studying the Multilevel European System and how the Regions influenced the Amsterdam Treaty

Languages

Fluent - Germany/Canada

* German: Mother tongue, fluent

* English: Fluent in spoken and written (TOEFL CBS 283/300)

Advanced - Switzerland/Peru

* French: Advanced (Certificate from the University of Geneva)

* Spanish: Advanced (Certificate from Maccu Picchu Spanish School)

Beginner - Germany

* Polish: Beginner (A1) (Unicert A1)

Classics - Germany

* Latin: Proficient (Latinum)

* Ancient Greek: Proficient (Graecum)

Shortlisted

Professorship - Germany/Austria

2023

* 2nd Place TU Vienna CS Department

* 4th Place Max Planck Institute for Demography (Rostock)

Academic Councillor - Germany

2020

* 2nd Place University of Hamburg CS Department