

# 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

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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

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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

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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

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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

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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