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
https://juliandehne.github.io
julian.dehne@gmail.com

Summary

I am a group lead for Research Software Engineering (RSE) at the German Computer Society, 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 project to develop a RSE master program and accompanying research.

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

Group Lead Research Software Engineering - GI - German Computer Science Society   April 2025 - Present

* Developing a Research Software Engineering Master Curriculum
* Research on Research Software
* Community Building and Science Policy for the new RSE field

Research Software Engineer - GESIS - Leibniz Institute for the Social Sciences   May 2024 - April 2025

* 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 datsets 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