

VALENTIN VELEV

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Konstanz, Germany

RESEARCH INTERESTS

My research focuses on developing accessible language models and language model-based systems for multilingual and socially grounded contexts.

EDUCATION

MSc Social and Economic Data Science

University of Konstanz

October 2023 – Present

Konstanz, Germany

- Preliminary average grade: 1.1
- Courses: Deep Learning (1.0), Word Representations and Language Models (1.0), Statistical Learning (1.3), Data Mining (1.0)
- Master's thesis (in progress): "Benchmarking Retrievers for Robustness and Generalizability in Retrieval-Augmented Generation Systems" (Supervisors: Jun.-Prof. Andreas Spitz and Prof. Dr. Daniel Keim)

BA Political Science

Goethe University Frankfurt

October 2019 – January 2023

Frankfurt am Main, Germany

- Final grade: 1.2 (with distinction)
- Courses: Statistics (1.3), Data Science for Human Geography (1.0)

EXPERIENCE

Teaching Assistant

Department of Computer and Information Science, University of Konstanz

August 2025 – Present

Konstanz, Germany

- Tutor for the course "Word Representations and Language Models" (master's level course)
- Use of Python, Git, and $\LaTeX$

Data Science Working Student

Codify AG

March 2025 – Present

Kreuzlingen, Switzerland

- Designing and implementing an evaluation pipeline for agentic AI systems using Python, MCP servers (agent tools), LLM-as-a-judge metrics, and Arize Phoenix (agent traces)
- Integrated system into production environment using TypeScript, Docker, and SQL (PostgreSQL)

Student Research Assistant

Center for Data and Methods, University of Konstanz

April 2024 – February 2025

Konstanz, Germany

- Conducted independent literature research and quantitative analyses, and created publication-ready visualizations
- Contributed to 3 papers published in peer-reviewed journals (Q1)
- Use of R, Stata, Python, and $\LaTeX$

PUBLICATIONS

Velev, V., & Spitz, A. (2025). gglyph: Network-Style Visualization of Directed Pairwise Relationships. *CRAN package*. <https://doi.org/10.32614/CRAN.package.gglyph>

Velev, V., & Schmidt-Catran, A. W. (2024). Economic Inequality and Public Support for Redistribution in Europe: A Cross-Sectional and Longitudinal Multilevel Analysis. *International Journal of Public Opinion Research*, 36(4), edae055. <https://doi.org/10.1093/ijpor/edae055>

Velev, V. (2023). Replication of "Multilevel Models for the Analysis of Comparative Survey Data Common Problems and Some Solutions" with R. *SocArXiv*. <https://doi.org/10.31235/osf.io/phq56>

SKILLS

Programming: Python, R, Stata, $\LaTeX$, Git, MS Excel, Java, HTML, CSS, SQL (PostgreSQL, MySQL), Tableau, Docker, JavaScript, TypeScript, C++

Languages: English (C2), German (mother tongue), Bulgarian (mother tongue), Dutch (elementary proficiency)

FURTHER EDUCATION & CERTIFICATES

Advanced Data and Information Literacy (ADILT) Certificate

October 2023 – September 2025

University of Konstanz

Konstanz, Germany

- Interdisciplinary certification program on data analysis, AI ethics, and digital responsibility
- Courses: Digitalization and Law, AI in Democracy

Google Data Analytics Professional Certificate

June 2021 – July 2021

Coursera

Online

- Introduction to R, SQL, MS Excel, and Tableau
- Application of technical knowledge in capstone project