

EDUCATION (UNIVERSITY OF ZAGREB, FACULTY OF ELECTRICAL ENGINEERING AND COMPUTING)

PhD in Computing (Summa Cum Laude) <ul style="list-style-type: none">Supervisor: Professor Jan Šnajder, PhDThesis: Improving Transfer Learning for Sequence Labeling Tasks by Adapting Pre-trained Neural Language ModelsSummer schools: LXMLS 2022 (Lisbon), MLSS 2023 (Krakow), EEML 2024 (Novi Sad)	Oct 2021 – Sep 2025
Visiting PhD Researcher, University of Würzburg, Germany <ul style="list-style-type: none">Host: Professor Goran Glavaš, PhDVisit output: Supervised In-Context Fine-Tuning for Generative Sequence Labeling	Sep 2024 – Dec 2024
MSc in Computing–Computer Science (Magna Cum Laude: top 5% in the class) <ul style="list-style-type: none">Rector’s award for paper “Real-Time Facial Expression Recognition using Deep Learning with Application to Recordings of the Experiment in the Classroom Environment”	Sep 2019 – July 2021
BSc in Computing–Computer Science	Sep 2016 – Jul 2019

PUBLICATION TRACK HIGHLIGHTS

David Dukić , Ana Barić, Marko Čuljak, Josip Jukić, Martin Tutek. Characterizing Linguistic Shifts in Croatian News via Diachronic Word Embeddings . Slavic NLP Workshop.	2025
Ivan Rep, David Dukić , Jan Šnajder. Are ELECTRA’s Sentence Embeddings Beyond Repair? The Case of Semantic Textual Similarity . Findings of EMNLP.	2024
David Dukić , Jan Šnajder. Looking Right is Sometimes Right: Investigating the Capabilities of Decoder-only LLMs for Sequence Labeling . Findings of ACL.	2024
David Dukić , Kiril Gashteovski, Goran Glavaš, Jan Šnajder. Leveraging Open Information Extraction for More Robust Domain Transfer of Event Trigger Detection . Findings of EACL.	2024
Ana Barić, Laura Majer, David Dukić , Marijana Grbeša-Zenzerović, Jan Šnajder. Target Two Birds With One SToNe: Entity-Level Sentiment and Tone Analysis in Croatian News Headlines . Slavic NLP Workshop.	2023
David Dukić , Dominik Keča, Dominik Stipić. Are you human? Detecting bots on Twitter Using BERT . IEEE 7th International Conference on Data Science and Advanced Analytics.	2020

WORK EXPERIENCE

Research Assistant at University of Zagreb, Croatia <ul style="list-style-type: none">Research: Authored 10+ papers, publishing in top-tier NLP venues (ACL, EMNLP)Reviewing: ARR, COLING, LRECTeaching: <i>Machine Learning 1</i> and <i>Introduction to Artificial Intelligence</i>Supervision: Co-supervised more than ten bachelor’s and master’s studentsProjects: TakeLab Retriever leader–developed a platform for scanning and indexing over ten million articles from Croatian news outlets; AIDWAS–developed event extraction models for real-time cyberspace surveillance and catastrophe/threat monitoring systems	Oct 2021 – Present
R&D Intern at TakeLab working on TakeLab Retriever project	Sep 2020 – Jun 2021

SKILLS AND INTERESTS

ML & DS Frameworks	Python (Scikit-learn, PyTorch, Pandas, Matplotlib, Numpy, Transformers)
Programming	Python, Linux/Bash, R, Java, HPC with SLURM/PBS
Languages	Croatian (native), English (high intermediate), German (basic)
Interests	Folk Instrument Player at Zagreb Folk Dance Ensemble (2016–) , Guitar, Traveling, Sports