Anej Svete

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Education

ETH Zürich — Zürich, Switzerland
Master of Data Science — *September 2020–Expected Fall 2022*

- GPA so far: 5.75/6.

University of Ljubljana — Ljubljana, Slovenia
Bachelor of Computer Science and Mathematics — *October 2017–August 2020*

- GPA: 10/10
- Top student in the department each year.

Stanford University — Ljubljana, Slovenia
Two machine learning courses as part of my bachelor's degree — *September 2019–March 2020*

Upper Secondary School of Electrical and Computer Engineering and Technical Gymnasium Ljubljana — Ljubljana, Slovenia
High School — *September 2013–June 2017*

- Perfect score on Matura examination: 34/34

Experience

Head Teaching Assistant
ETH Zürich — *Zürich, Switzerland*

Advanced Formal Language Theory — *November 2021–Present*

Natural Language Processing — *September 2022–Present*

Teaching Assistant
ETH Zürich — *Zürich, Switzerland*

Large Language Models — *November 2022–Present*

Natural Language Processing — *January 2021–February 2022*

Philosophy of Language and Computation — *August 2022–Present*

Machine Learning for Healthcare — *February 2022–June 2022*

Machine Learning for Genomics — *January 2022–June 2022*

Computational Biomedicine — *August 2021–February 2022*

Software Developer — June 2017 – September 2020
XLAB — *Ljubljana, Slovenia*

Tutor for Mathematics — October 2018 – October 2019
University of Ljubljana — *Ljubljana, Slovenia*

Publications

Svete, A., Dayan, B., Vieira, T., Cotterell, R., Eisner, J. (2022). Acyclic Weighted Finite-State Automata with Failure Arcs. Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing. Abu Dhabi, United Arab Emirates: Association for Computational Linguistics. — November 2022

Scholarships and Awards

Ad Futura Scholarship September 2020–September 2022

- Scholarship awarded to excellent students studying abroad by Slovenian government.

Rector's Prize July 2021

- Exceptional study results at the end of my bachelor's studies.

Dean's Prize October 2018–September 2020

- Exceptional study results all three years of my bachelor's studies.

Intern Scholarship June 2017–September 2020

- Scholarship given by XLAB during my bachelor's studies.

Golden Owl Award September 2017

- Award given by the president of the Republic of Slovenia to students who achieved all possible points on national matriculation examination. I was one of 16 awardees that year.

Projects

`latte`: Interpreting and understanding learned latent spaces April 2022–November 2022

A method for finding informative low-dimensional subspaces of representation spaces, enabling more interpretable analysis of the representations.

`Rayuela`: A Formal Language Theory Library for teaching December 2021–Present

An extensive Python-based library implementing fundamental formal language models and algorithms.

Analyzing single-cell antibody response for quantifying vaccine efficacy September 2021–January 2022

A single-cell droplet image analysis pipeline for the quantification of the cell's response to viruses.

Predicting splicing from combined sequence and 3D chromatin data September 2021–January 2022

Investigating the importance of the 3D structure of the chromatin for splicing of pre-mRNA molecules.

Generalization of the cart pole problem to more difficult domains November 2019–August 2020

A generalization of the cart pole system often used to benchmark reinforcement learning algorithms.

Analyzing voting patterns in the Eurovision Song Context September 2019–March 2020

Analysis of the historic voting trends in the ESC using various tools for network analysis and led to a publication in the journal *Informatika*.

Extracurricular Activities

ACL Meeting Conference Attendee May 2022

NetSlo Conference Attendee January 2020

Skills

Languages: Slovene (native), English (fluent), German (intermediate)

Programming Languages : Python, Python Data Science tools (numpy, pandas, Pytorch, Keras, etc.), R, Spark, Java, Matlab, SQL

Digital: Unix, Latex

Interest and Hobbies

To balance my everyday, I like to spend time outside on walks, runs, and hikes. I also enjoy reading both fiction and nonfiction, with my current favorites being books by John Kennedy Toole, and, if I just need some relaxing time off, Christopher Moore. I aim to always keep my mind open to new ideas and diverse topics.