

Rita Sevastjanova

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I have 8+ years of experience in managing research projects, securing competitive funding, and leading industry collaborations. I am skilled in artificial intelligence, particularly large language models (LLMs), data analysis, data-driven visualizations, and recognized for driving partnerships across academia and industry.

EXPERIENCE

ETH ZÜRICH

POSTDOCTORAL RESEARCHER IN COMPUTER SCIENCE

Interactive Visualization and Intelligence Augmentation Lab
Nov 2023 – now | Zürich, Switzerland

UNIVERSITY OF KONSTANZ

RESEARCH ASSOCIATE IN COMPUTER SCIENCE

Data Analysis and Visualization Group
Nov 2017 – Nov 2023 | Konstanz, Germany

UNIVERSITY OF KONSTANZ

RESEARCH ASSISTANT IN COMPUTER SCIENCE

Data Analysis and Visualization Group
Aug 2013 – Sept 2017 | Konstanz, Germany

PROJECTS

ARTEFACTS OF THE FUTURE | WITH BIOETHICS LAB, ETHZ |

PROJECT LEAD

Oct 2025 – Present | Zürich, Switzerland

The project is a speculative exhibition combining 3D-printed sculptures with an AI-powered conversational system.

SAFER | WITH ARMASWISS | PROJECT LEAD

Sept 2025 – Present | Zürich, Switzerland

The project utilizes AI agents to simulate Swiss population in crisis situations.

ELEMENTS OF APN | WITH ZHdK | PROJECT LEAD

2024 – 2025 | Zürich, Switzerland

The project combined machine learning methods with manual research to conduct a comparative analysis of visual artifacts from artworks.

REPORT ANALYSIS | FUNDED BY GIZ | DEVELOPER

2022 – 2023 | Konstanz, Germany

The project combined LLM fine-tuning, text mining methods and visualizations for analyzing evaluation reports of international organizations.

LINVIS.IO | DEVELOPER

2017 – 2023 | Konstanz, Germany

The project developed text-mining pipelines and web-based visualizations for applications ranging from discourse analysis to language model explainability.

QUESTIONS VISUALIZED | FUNDED BY DFG | DEVELOPER

2017 – 2023 | Konstanz, Germany

The project conducted interdisciplinary research on question classification tasks and developed interactive visual analytics systems for question annotation and analysis.

PERSONAL INFORMATION

DATE OF BIRTH: 27.09.1988

NATIONALITY: LATVIAN

EDUCATION

UNIVERSITY OF KONSTANZ

P.H.D. IN NATURAL SCIENCES (DR.RER.NAT.)

2017-2023 | Konstanz, Germany

Thesis: "Interactive Visual Investigation of Word Embedding Contextualizations in Large Language Models"

Received Südwestmetall-Förderpreis (5000€) for an outstanding dissertation.

UNIVERSITY OF KONSTANZ

MASTER OF SCIENCE, COMPUTER AND INFORMATION SCIENCE

2016-2017 | Konstanz, Germany

UNIVERSITY OF KONSTANZ

BACHELOR OF SCIENCE, INFORMATION ENGINEERING

2012-2016 | Konstanz, Germany

UNIVERSITY OF LATVIA

BACHELOR OF ARTS, SYNOPSIS

2008-2011 | Riga, Latvia

RESPONSIBILITIES

ACQUISITION OF FUNDING

Nov 2023 – now | Zürich, Switzerland

Leads the development of research proposals and the acquisition of external research funding.

RECRUITMENT

Nov 2023 – now | Zürich, Switzerland

Leads recruitment of PhD candidates and evaluation of fellowship applications.

PROJECT MANAGEMENT

Nov 2023 – now | Zürich, Switzerland

Develops and manages collaborations with external partners, negotiating project scope and aligning objectives.

SUPERVISION

Nov 2023 – now | Zürich, Switzerland

Leads a focus group of PhD students, supporting professional development and driving project progress. Supervised 15+ Bachelor's and Master's theses.

INVITED TALKS AND PANEL DISCUSSIONS

COLLEGIUM HELVETICUM

Jan 2025 | Zürich, Switzerland

Panel and talk "Visual Analytics Approaches for Exploring Large Language Models"

IPAI EXPERIENCE DAY

Oct 2024 | Heilbronn, Germany

Talk „Investigating Biases in AI through Interactive Machine Learning“

DIGITALGIPFEL DER BUNDESREGIERUNG

Oct 2024 | Frankfurt am Main, Germany

Panel „KI im Tagesgeschäft? – Erfolgsrezepte aus Unternehmen, öffentlicher Verwaltung und Politik“

TED AI

Oct 2024 | Vienna, Austria

Co-organized the workshop "Discovering the Power of Human-AI Collaboration Firsthand"

AI + X SUMMIT

Oct 2024 | Zürich, Switzerland

Talk „Investigating Biases in AI through Interactive Machine Learning“

GOOGLE CLOUD PARTNER CONNECT

Sept 2024 | Zürich, Switzerland

Talk „Bias in Generative Language Models“

COLLECTIVE GATHERING AT THE STARTUP DAYS

May 2024 | Bern, Switzerland

Panel „Empathy in AI“

INNOVATION SERIES

Jan 2025 | Zurich, Switzerland

Talk „Language Model Explainability“

SELECTED PUBLICATIONS

FIRST-AUTHORED

- Rita Sevastjanova, Robin Gerling, Thilo Spinner, and Mennatallah El-Assady. 'LayerFlow: Layer-wise Exploration of LLM Embeddings using Uncertainty-aware Interlinked Projections'. In Computer Graphics Forum, 44: e70123, (2025).
- Rita Sevastjanova, Aikaterini-Lida Kalouli, Christin Beck, Hanna Schäfer, and Mennatallah El- Assady. 'Explaining Contextualization in Language Models using Visual Analytics'. In: Proc. of the 59th Annual Meeting of the Association for Computational Linguistics (ACL) and the 11th Int. Joint Conf. on Natural Language Processing (Volume 1: Long Papers) (2021), pp. 464–476.

CLOSELY-SUPERVISED

- Thilo Spinner, Rita Sevastjanova, Rebecca Kehlbeck, Tobias Stähle, Daniel A. Keim, Oliver Deussen, Andreas Spitz, and Mennatallah El-Assady. 'Revealing the Unwritten: Visual Investigation of Beam Search Trees to Address Language Model Prompting Challenges'. In Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 3: System Demonstrations), pages 295–306, (2025).
- Kenza Amara, Rita Sevastjanova, and Mennatallah El-Assady. 'SyntaxShap: Syntax-aware Explainability Method for Text Generation'. In Findings of the Association for Computational Linguistics ACL 2024, pages 4551–4566, (2024).

AWARDS

2025	Südwestmetall-Förderpreis for an Outstanding Dissertation
2021	Outstanding Paper Award, Int. Conf. on Computational Semantics
2021	Best Paper Award, Journal of Comparative Policy Analysis
2017	Honorable Mention Paper Award, VAST Conference

SKILLS

PROGRAMMING

Python • Java • JavaScript • TypeScript • HTML • CSS • D3.js • SQL

FRAMEWORKS/PLATFORMS

TensorFlow • PyTorch • Scikit-learn • React • Node.js • Git • Docker

LANGUAGES

Latvian (native) • English (proficient) • German (proficient) • Russian (fluent) • Chinese (basic)

PUBLICATIONS

50+ (co-)authored peer-reviewed publications at top-tier venues such as IEEE VIS, EuroVis, CHI, ACL, COLING.