

# Georg Friedrich Schuppe

AI Research Scientist | PhD | Open Source Maintainer



gschup



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## WORK

### SKANDINAVISKA ENSKILDA BANKEN AB | APPLIED AI RESEARCHER

July 2023 - Current | Stockholm, Sweden

- Architected and deployed production-ready AI prototypes, including RAG pipelines for compliance; LLM-based multi-agent systems for internal business knowledge or time-series prediction for financial data; collaborating closely with core business units (e.g., Risk Modeling, Corporate Customer Support) to ensure successful integration and validate immediate business impact.
- Influenced executive strategy by presenting technical research on Generative AI and LLM agents to SEB Management Teams and external stakeholders like SKF AB.
- Spearheaded a cross-sector research initiative within the WASP WARA Media & Language arena, orchestrating collaboration between industry and academia to design and implement evaluation benchmarks for LLM-powered knowledge graph construction.
- Directed high-impact academic research by mentoring Master's students from KTH and Chalmers on GNNs for financial event prediction and privacy-preserving synthetic data generation.

### KTH ROYAL INSTITUTE OF TECHNOLOGY | DOCTORAL STUDENT

Jan 2019 - July 2023 | Stockholm, Sweden

- WASP Affiliate PhD Student executing research on provably correct task planning for multi-robot systems via temporal logic specifications [2].
- Published in high-impact venues (e.g., RSS) and nominated for Best Student Paper at IEEE MRS 2021.
- Collaborated across interdisciplinary teams of professors and postdocs to drive innovative robotics research.

## OPEN SOURCE

### GGRS - ROLLBACK NETCODE LIBRARY | RUST

<https://github.com/gschup/ggrs>

- Architected and maintaining a high-performance Rust library implementing state-of-the-art rollback netcode for P2P multiplayer synchronization.
- Established a leading ecosystem solution by achieving >1,000 GitHub Stars and >96,000 downloads, reflecting significant community trust and technical reliability.
- Enabled commercial success for indie projects, providing the networking backbone for the crowdfunded [Fish Folk] and the Steam release [Signs of Danger]

## SELECTED ACADEMIC PUBLICATIONS

- [1] Georg Friedrich Schuppe, Ilaria Torre, Iolanda Leite, and Jana Tumova. Follow my advice: Assume-guarantee approach to task planning with human in the loop. In Robotics: Science and Systems (RSS), 2023.
- [2] Georg Friedrich Schuppe. Assumptions in synthesis: An approach to multi-agent planning from spatio-temporal specifications. PhD thesis, KTH Royal Institute of Technology, 2023.

## SKILLS

### AI & ML

LLM Orchestration (RAG, Multi-Agent Systems) • PyTorch • TensorFlow •

### PROGRAMMING

Rust • Python • C++  
Java • Javascript • HTML

### LIBRARIES/TOOLS

Git • Docker • Google Cloud

### LANGUAGES

German (Native), English (C1),  
Swedish (B1)

## EDUCATION

### KTH ROYAL INSTITUTE OF TECHNOLOGY STOCKHOLM, SWEDEN

PHD IN COMPUTER SCIENCE

Jan 2019 - Jul 2023

### LEIBNIZ UNIVERSITY HANNOVER, GERMANY

MASTER'S IN COMPUTER SCIENCE

Oct 2011 - Nov 2018

With Distinction

## AWARDS

- 2021: Best Student Paper  
Finalist at IEEE MRS 2021
- 2020: Karl Engvers Stiftelse  
Research Travel Grant
- 2019: WASP affiliated PhD  
student

## REFERENCES

### Anastasia Varava

Research Lead, SEBx

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### Jana Tumova

PhD Supervisor, KTH

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