Arion Scheid

M.Sc. Student in Logic and AI · TU Wien

Vienna, Austria arionscheid@gmail.com linkedin.com/in/arionscheid github.com/ArionScheid Google Scholar ORCID

EDUCATION

M.Sc. Logic and AI 2026 – present
TU Wien, Vienna, Austria

B.Sc. Informatics 2020 – 2025
RWTH Aachen University, Aachen, Germany

- Thesis: *Using Stochastic Context-Free Grammars to Decide Almost-Sure Termination for Probabilistic Term Rewriting Systems*, grade 1.0
- Written at the Programming Languages and Verification research group (Prof. Jürgen Giesl), supervised by Jan-Christoph Kassing; contributed to the automated termination prover AProVE

Erasmus exchange, M.Sc. Formal Methods in Computer Science Sep 2024 – Jan 2025
Universidad Complutense de Madrid, Madrid, Spain

PUBLICATIONS

A First Decision Procedure for Almost-Sure Termination of Probabilistic Term Rewriting
Jan-Christoph Kassing, **Arion Scheid**, Henri Nagel, Jürgen Giesl. VeriProP 2026: Workshop on Verification of Probabilistic Programs, FLoC 2026, Lisbon. Extended abstract based on my bachelor's thesis. Paper

Using Stochastic Context-Free Grammars to Decide Almost-Sure Termination for Probabilistic Term Rewriting Systems
Arion Scheid. Bachelor's thesis, RWTH Aachen University, 2025. PDF

TEACHING

Premium Tutor Apr 2025 – present
TutorSpace · Remote
One-to-one lessons in mathematics, computer science and physics, mainly Abitur preparation, in TutorSpace's selective premium programme.

Student Tutor Apr 2022 – Sep 2024
RWTH Aachen University · Aachen, Germany
Weekly 90-minute tutorials for around 30 students; graded weekly exercise sheets and final exams.

Formal Systems, Automata and Processes	Summer 2024
Introduction to Programming	Winter 2023/24
Data Structures and Algorithms	Summer 2023
Analysis for Computer Scientists	Winter 2022/23
Foundations of Logic Programming	Summer 2022

PROJECTS

AProVE: Thesis Implementation 2025
Implemented the results of my bachelor's thesis as two new processors for the (now open-source) termination prover AProVE. Website

GNNExplainer: Seminar Study 2026
Report for the Seminar in Artificial Intelligence at TU Wien on GNNExplainer (Ying et al., 2019): finds a flawed step in the derivation of its objective and studies two failure modes on a new benchmark. Report · GitHub

Vienna District Browser 2026
Project for the Knowledge Graphs course at TU Wien: a knowledge graph over Vienna's public-transport timetable and rental listings, with rule-based reasoning, embeddings and a GNN, served as an interactive map. Demo · GitHub

SKILLS

Programming Java, Haskell, Prolog, Python

Languages German, Spanish (native); English (C1)