Tobias Vente

Mail • LinkedIn • GitHub • Google Scholar • Personal Website

EDUCATION

Ph.D. in Computer Science   Expected May 2025

University of Siegen, Sigen, Germany

M.Sc. in Computer Science   Jan 2019 - Aug 2021

University of Siegen, Siegen, Germany   GPA: 3.8/4

Student Exchange - M.Sc. in Computer Science   Aug 2018 - Jun 2019

University of Tulsa, Tulsa, OK, USA   GPA: 4/4

B.Sc. in Computer Science   Jan 2019

University of Siegen, Sigen, Germany

EMPLOYMENT HISTORY

SAP SE | *Internship*   Aug 2020 - Nov 2020

- Developed data visualizations to streamline SAP cloud platform persistence test procedures

SAP SE | *Internship*   Jun 2019 - Sep 2019

- Enhanced SAP cloud platform's resilience by developing a robust test infrastructure

University of Siegen | *Teaching Assistant*   Oct 2017 - Sep 2020

- Coordinated laboratory sessions and designed exercises for the Algorithms and Data Structures course
- Coordinated laboratory sessions and designed exercises for the Object-Oriented and Functional Programming lecture

Faurecia Automotive GmbH | *Internship*   Oct 2017 - Sep 2020

- Designed and implemented databases for efficient storage of production data

NetFederation GmbH | *Internship*   Aug 2016 - Oct 2016

- Deployed an internal communication chat tool using ROCKET.CHAT for enhanced team collaboration

RESEARCH VISITS

University of Gothenburg | *Department of Applied Information Technology*   Feb 2024 - Mar 2024

- Research Project on the energy consumption of recommender systems and their environmental impact under Prof. Alan Said

University of Antwerp | *ADReM Research Group*   Jan 2024 - Feb 2024

- Research Project on similarity-based ensembling strategies within recommender systems to enhance personalization and efficiency under Prof. Bart Goethals

TECHNICAL SKILLS & RESEARCH INTERESTS

Programming: Python, C, C++, Java, SQL

Frameworks: Git, Numpy, Pandas, Scipy, Scikit-Learn, Pytorch, Tensorflow

Research Focus: recommender systems evaluation, automated recommender systems, model selection, machine learning

Languages Spoken: English, German, Spanish(basic)

HONORS & ACCOLADES

Germany | *Full Scholarship of the Konrad Adenauer Foundation*   Oct 2017 - Dez 2021

- Scholarship holder of the scholarship program for gifted students

Tulsa, OK, USA | *Presidential Honor Award*   Jun 2019

- Award for outstanding academic performance

OPEN-SOURCE PROJECTS

LensKit-Auto | *An automated (AutoRecSys) toolkit for offline evaluation based on LensKit*   **GitHub:** ISG-Siegen/lenskit-auto

PEER-REVIEWED ACADEMIC PUBLICATIONS

Conferences:

1. | *Revealing the Hidden Impact of Top-N Metrics on Optimization in Recommender Systems*

L. Wegmeth, **T. Vente**, L. Purucker   ECIR 2024 (Full Paper)

2. | *Introducing LensKit-Auto, an Experimental Automated Recommender System (AutoRecSys) Toolkit*

T. Vente, M.D. Ekstrand, J. Beel   ACM RecSys 2023 (Demo Track)

3. | *Advancing Automation of Design Decisions in Recommender System Pipelines*

T. Vente   ACM RecSys 2023 (Doctoral Symposium)

Workshops: 1. | *The Effect of Random Seeds for Data Splitting on Recommendation Accuracy*

L. Wegmeth, **T. Vente**, L. Purucker, J. Beel   ACM RecSys 2023 (PERSPECTIVES Workshop)