Leonard Traeger

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Baltimore, Maryland

EDUCATION

University of Maryland, Baltimore County (UMBC) — Baltimore, USA
Ph.D. in Information Systems; currently candidate with GPA: 3.97/4 — *August. 2021 – Present*
Cologne Technical University of Applied Sciences (THK) — Cologne, Germany
M.Sc. in Computer Science / Information Systems; grade 1.2/5 equiv. GPA: 3.8/4 — *Mar. 2019 – Apr. 2022*
Macquarie University (MU) — Sydney, Australia
Exchange semester in Information Systems; grades HD, HD, C equiv. GPA: 3.2/4 — *June. 2017 – Dec. 2017*
Cologne Technical University of Applied Sciences (THK) — Gummersbach, Germany
B.Sc. in Business Information Systems; grade 1.7/5 equiv. GPA: 3.3/4 — *Aug. 2015 – Feb. 2019*

PROFESSIONAL EXPERIENCE

Institute for Big Data Analytics at THK — Cologne, Germany
Research Assistant — *Oct. 2023 - Present*

- Currently researching the linkability of data entities via language models and unsupervised methods
- Winter 2023-2025 Lecturer at University of Applied Sciences Dortmund and Art for Programming II Data Science with Python and R (Syllabus)

Information Systems Department at UMBC — Baltimore, USA
Graduate Teaching and Research Assistant — *Aug. 2022 - Present*

- Spring 2024 Technology Catalyst Fund for commercialization of a Semantic Mapper for Application Integration
- Fall 2022 Guest lecture about Inteplato in Systems and Information Integration (IS722)
- Fall 2022 and Spring 2023 Undergraduate weekly lab sessions for Database Application Development (IS420)

IT Consultancy, German Military Bundeswehr (BWI GmbH) — Bonn, Germany
Data Warehouse Application Consultant — *Mar. 2019 - Jul. 2022*

- Developing data pipelines and dashboards for materials, missions, and unit resources on BW/4HANA (300k users)
- Designing role authorization concepts, testing routines, training materials, and stakeholder workshops

PROGRAMMING SKILLS

SQL, Python (numpy, pandas, pyplot, sns, sklearn, TensorFlow), R, Javascript, MATLAB, ABAP

PUBLICATIONS

Traeger, Leonard; Behrend, Andreas; Karabatis, George: "Scoping: Towards Streamlined Entity Collections for Multi-Sourced Entity Resolution with Self-Supervised Agents". In: 26th International Conference on Enterprise Information Systems (ICEIS 2024). **Best Paper Award** (DOI:10.5220/0012607500003690) (GitHub)

Traeger, Leonard; Omar, Faraque: "Autonomous Object Detection and Landing with Parrot Rolling Spider in Matlab Simulink". In: IEEE International Conference on Embedded Systems, Cyber-physical Systems & Applications (ESCS 2023). (DOI 10.1109/CSCE60160.2023.00160) (GitHub) (YouTube)

Traeger, Leonard; Behrend, Andreas; Karabatis, George: "Inteplato: Generating Mappings of Heterogeneous Relational Schemas using Unsupervised Learning". In: IEEE International Conference on Computational Science and Computational Intelligence (CSCI 2022). (DOI:10.1109/CSCI58124.2022.00083) (GitHub)

AWARDS AND SERVICES

VLDB Summer School (2023) **Best Poster** at Cluj, Romania

DOAG (2022) Conference Speaker "Machine Learning and Data Integration" at Düsseldorf, Germany

Fulbright Germany Graduate Scholarship (2021) at UMBC

M.Sc. Digital sciences auditor for reaccreditation and examination (2019 - 2022)