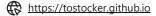
# **TOBIAS STOCKER**







## **INTERESTS**

My research interests are in serverless cloud orchestration, data processing and machine learning. I am currently working on extending the declarative nature of data processing in the cloud.

### **EDUCATION**

Sep 2025 - present	<ul> <li>PhD in Computer Science   ETH Zürich, Zurich, Switzerland</li> <li>Working on serverless data processing in the cloud</li> <li>Advisor: Ana Klimovic (Systems Group)</li> </ul>
Sep 2022 - Apr 2025	<ul> <li>Master of Science in Computer Science   ETH Zürich, Zurich, Switzerland</li> <li>Major: Data Management Systems, Minor: Machine Learning</li> <li>Master Thesis: Efficient Data Query Execution as Serverless Workflows</li> </ul>
Sep 2019 - Sep 2019	Bachelor of Science in Computer Science   ETH Zürich, Zurich, Switzerland - Bachelor Thesis: SSA Data Flow Information for Semantic Code Tasks

Aug 2012 - Jul 2018 Matura (Swiss Academic Baccalaureate) | Kantonsschule Zug, Zug, Switzerland - Focus: Mathematics with Applied Physics

### **PUBLICATIONS**

CIDR'26 End-to-End Declarative Data Analytics: Co-designing Engines, Interfaces, and **Cloud Infrastructure** 

> Pinghe Li\*, Tom Kuchler\*, Marko Kabić\*, Tobias Stocker\*, Gustavo Alonso, Ana Klimovic To appear in the Proceedings of the Conference on Innovative Data Systems Research (CIDR), 2026.

SOSP'25 **Unlocking True Elasticity for the Cloud-Native Era with Dandelion** 

> Tom Kuchler, Pinghe Li, Yazhuo Zhang, Lazar Cvetković, Boris Goranov, Tobias Stocker, Leon Thomm, Simone Kalbermatter, Tim Notter, Andrea Lattuada, Ana Klimovic

Proceedings of the ACM Symposium on Operating Systems Principles, 2025.

# **POSTERS**

SOSP'25 **Declarative Stack for Cloud Data Analytics** 

> Tobias Stocker\*, Pinghe Li\*, Tom Kuchler\*, Marko Kabić\*, Gustavo Alonso, Ana Klimovic Presented at the ACM Symposium on Operating Systems Principles, 2025.

### **INDUSTRY EXPERIENCE**

Oct 2022 - Jul 2024 Junior Software Engineer | Innovation Process Technology AG, Zurich, Switzerland

- Part time (40%) working student

- Maintenance and further development of both a data warehouse as well as data mesh platform of a swiss insurance company

Jan 2019 - Jun 2019 Intern | Ringler Informatik, Baar, Switzerland

Various tasks ranging from Cypres end-to-end testing over development and maintenance of company websites to customer support and marketing

#### **TEACHING EXPERIENCE**

Fall Semester 2025 **Doctoral Teaching Assistant** | ETH Zürich, Zurich, Switzerland

- Systems Programming and Computer Architecture

Nov 2021 - Jul 2022 Highschool Teaching Substitute | Kantonsschule Zug, Zug, Switzerland

Oct 2020 - Dec 2020 - Teaching Introduction to Computer Science (9<sup>th</sup> graders)

- Teaching Computer Science (12th graders)

## **TECHNICAL SKILLS**

Languages C, C++, Go, Java, Python, Rust, SQL

Tools/Libraries gRPC, protobuf, PyTorch, Pandas, Numpy, Apache Arrow, Apache Spark