

Franco Solleza

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EDUCATION

Brown University, Providence, RI
Ph.D. Computer Science,
Advisor: Malte Schwarzkopf

2020 – Current (expected 2026)

Northeastern University, Boston, MA
B.S. in Economics, Magna Cum Laude

2006 – 2011

PUBLICATIONS

Franco Solleza, Shihang Li, William Sun, Richard Tang, Malte Schwarzkopf, Andrew Crotty, David Cohen, Nesime Tatbul, Stan Zdonik. 2025. **Loom: Efficient Capture and Querying of High-Frequency Telemetry**. In *ACM Symposium on Operating Systems Principles (SOSP '25)*, Seoul, South Korea.

Franco Solleza, Justus Adam, Akshay Narayan, Malte Schwarzkopf, Andrew Crotty, Nesime Tatbul. 2025. **Kernel Extension DSLs Should Be Verifier-Safe!** In *3rd ACM International Workshop on eBPF and Kernel Extensions (eBPF '25)*, Coimbra, Portugal.

Franco Solleza, Shihang Li, William Sun, Richard Tang, Malte Schwarzkopf, Nesime Tatbul, Andrew Crotty, David Cohen, Stan Zdonik. 2024. **Mach: Firefighting Time-Critical Issues in Complex Systems Using High-Frequency Telemetry (Demonstration)**. *The Proceedings of the VLDB Endowment (PVLDB) 17, 12 (VLDB '24)*. Guangzhou, China.

Franco Solleza, Andrew Crotty, Suman Karumuri, Nesime Tatbul, Stan Zdonik. 2022. **Mach: A Pluggable Metrics Storage Engine for the Age of Observability**. In *Conference on Innovative Data Systems Research (CIDR '22)*, Chaminade, CA, USA.

Suman Karumuri, **Franco Solleza**, Stan Zdonik, Nesime Tatbul. 2021. **Cloud Observability: A MELTING Pot for Petabytes of Heterogenous Time Series**. In *Conference on Innovative Data Systems Research (CIDR '21)*, Virtual Event.

Suman Karumuri, **Franco Solleza**, Stan Zdonik, Nesime Tatbul. 2020. **Towards Observability Data Management at Scale**. *ACM SIGMOD Record 49, 4 (December 2020)*.

Philip Eichmann, **Franco Solleza**, Nesime Tatbul, Stan Zdonik. 2019. **Visual Exploration of Time Series Anomalies with Metro-Viz (Demonstration)**. In *ACM SIGMOD International Conference on Management of Data (SIGMOD '19)*, Amsterdam, Netherlands. **(Best Demonstration Award)**

Philip Eichmann, **Franco Solleza**, Junjay Tan, Nesime Tatbul, Stan Zdonik. 2019. **Metro-Viz: Black-Box Analysis of Time Series Anomaly Detectors**. In *ACM CHI Conference on Human Factors in Computing Systems (CHI '19)*, Glasgow, UK.

TEACHING

- **Designing High-Performance Network Systems**, CSCI 1675, Co-instructor, Spring 2025
- **Topics in Database Management**, CSCI 2270, Graduate TA, Spring 2019
- **Introduction to Database Management Systems**, CSCI 1270, Graduate TA, Spring 2019