# FLORIAN SURI-PAYER

PhD Candidate - Computer Science - Cornell University
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## EDUCATION

**Doctor of Philosophy (Ph.D.), Computer Science** *August 2018 - Present*
Research Area: Distributed Systems
Supervised by Lorenzo Alvisi & Natacha Crooks
Cornell University, Ithaca, USA GPA: 4.2

**Bachelor of Science (B.Sc.), Computer Science.** *October 2015 - August 2018*
Thesis: *Unsupervised Anomaly Detection using ARIMA Forecasting*
Supervised by Florian Schmidt & Odej Kao
TU Berlin, Berlin, Germany Grade 1.18 (summa cum laude)

## RESEARCH INTERESTS

My passion lies in analytical thinking and formal rigor as applied to practical computing systems. My current research addresses the design of scalable and robust distributed systems, specifically efficient Byzantine fault tolerance, and low latency transaction processing with high throughput.

## AWARDS AND HONORS

**BS Thesis recognition and Honors list**, TU Berlin. *2018*
*Ranked Top 1% of all graduating students across all fields of studies. Thesis with distinction (1.0).*
**Nominated (2x) to German National Stipend Foundation** *2015 & 2018*
*Top 5% of students across all fields of studies across Germany.*
**High School Valedictorian Honors** *2015*
*Highest achievable summa cum laude grade (1.0) in national-level exams.*

## PEER-REVIEWED PUBLICATIONS

**Eurosys'23**, Morty: Scaling Concurrency Control with Re-Execution
*Matthew Burke,* **Florian Suri-Payer***, Jeffrey Helt, Lorenzo Alvisi, and Natacha Crooks.*

**DISC'22**, Its not easy to relax: liveness in chained BFT protocols (Brief Annoncement)
*Neil Giridharan,* **Florian Suri-Payer***, Ittai Abraham, Natacha Crooks, and Heidi Howard.*

**SOSP'21**, Basil: Breaking up BFT with ACID (transactions)
**Florian Suri-Payer***, Matthew Burke, Zheng Wang, Yunhao Zhang, Lorenzo Alvisi, and Natacha Crooks.*

**UCC Companion'18**, Unsupervised Anomaly Event Detection for Cloud Monitoring Using Online Arima
*Florian Schmidt,* **Florian Suri-Payer***, Anton Gulenko, Marcel Wallschlager, Alexander Acker and Odej Kao.*

**CloudCom'18**, Unsupervised Anomaly Event Detection for VNF Service Monitoring Using Multivariate Online Arima
*Florian Schmidt,* **Florian Suri-Payer***, Anton Gulenko, Marcel Wallschlager, Alexander Acker and Odej Kao.*

## RELEVANT WORK EXERIENCE

**UC Berkeley: Visiting Researcher** *March-May 2022*
Berkeley, USA

- RISELab, Data Systems and Foundation Group, Supervised by Natacha Crooks
- Work on theoretical foundations of blockchain consensus & query processing for blockchain systems

**Microsoft Research Cambridge: Research Intern** *June-August 2021*
Cambridge, UK

- Confidential Computing Group, Supervisied by Antoine Delignat-Lavaud & Cedric Fournet
- Work on Microsoft's Confidential Consortium Framework

**Cornell Univserity Graduate Researcher** *August 2018 - Present*
Ithaca, USA

- Laboratory for Advanced Systems Research, supervised by Lorenzo Alvisi
- Work on transactional blockchain systems & concurrency control for distributed databases

## RELEVANT TEACHING EXERIENCE

**Operating Systems (CS4410)**, Cornell University, *Head Teaching Assistant* *2019, 2020*
**Object Oriented Programming (CS2210)**, Cornell University, *Head Teaching Assistant* *2018*
**Object Oriented Programming Add-On (CS2211)**, Cornell University, *Co-instructor* *2018*
**Algorithms and Data Structures**, TU Berlin, *Teaching Assistant* *2018*
**Discrete Structures**, TU Berlin, *Teaching Assistant* *2017*
**Computability and Complexity**, TU Berlin, *Teaching Assistant* *2017*
**Formal Languages and Automatons**, TU Berlin, *Teaching Assistant* *2016*

## TECHNICAL & SOFT SKILLS

- **Independent problem solving skills**, as exercised in day to day research work, and demonstrated by project work and publications.
- **Strong communication abilities**. Extensive experience giving high profile talks, teaching students in class room and office hour settings, as well as research collaborations. Substantial writing experience through paper writing, grant applications, and tech-blog posts.
- **Leadership experience**, both in a research setting – mentoring multiple undergrads –, and teaching setting – managing class organization, TA coordination, and exam design.
- **Programming Skills:** C++/C, Java, Python
- **Auxillary Tools:** Latex, Git, MS Office, CloudLab

## MISC

**Academic Service**

- ACM TOCS'2020 (Reviewer), OSDI'2020 (Reviewer aide), SOSP'2019 (Reviewer aide)

**Extra Curricular**

- Licensed Tennis Trainer (German Level C), Part of Cornell Club Tennis

**Citizenship: USA, Austria**

## LANGUAGES

English – Native, German – Native, French: Working Knowledge (Delf B1)