

# Ard Kastrati

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## EDUCATION

### ETH ZÜRICH

#### MSc IN COMPUTER SCIENCE

April 2020 | Zürich

Specialization: Information Security

Current GPA: 5.7 / 6.0

(Best grade: 6.0 - Worst grade: 1.0)

### KIT

#### BSc IN COMPUTER SCIENCE

August 2017 | Karlsruhe

Major: Computer Science

Minor: Electrical Engineering

GPA: 1.3 / 1.0

(Best grade: 1.0 - Worst grade: 5.0)

### STUDIENKOLLEG KARLSRUHE

June 2014 | Karlsruhe

One year pre-university course

GPA: 1.0 / 1.0

## SKILLS

### TECHNICAL

Advanced:

Java • C++ • Python

Intermediate:

C • Burp • Metasploit •  $\LaTeX$

• Nmap • SQL • Matlab • Simulink

Familiar:

HTML • CSS • Haskell • Prolog

### SOFT

Proficient in English, German, Albanian

• Leadership • Analytical Thinking

## WORK EXPERIENCE

### KIT | TUTOR IN MATHEMATICS

Oct 2014 - Feb 2015 | Karlsruhe

Responsible for weekly exercises in mathematics at Studienkolleg Karlsruhe

### DOKUFEST | IT SPECIALIST

July 2011 - Aug 2013 | Prizren, Kosovo

Volunteer at International Documentary and Short Film Festival - Dokufest

- Implementation, monitoring, and maintenance of IT systems
- Badges production for the staff and guests at hospitality
- In year 2011, I was also part of the logistics team

## RESEARCH

### ETH ZÜRICH

June 2019 – Now | Zürich

Working together with **Chen-Da Liu Zhang**, **Martin Hirt** and group leader **Ueli Maurer** in the topic "Multi-threshold Asynchronous Broadcast, Consensus and MPC"

- Purely theoretical analysis of the most important primitives in multi-party computation such as broadcast and consensus
- Many interesting (im)possibility results
- Part of Master thesis (<https://doi.org/10.3929/ethz-b-000407845>)
- Currently finalizing and extending our results and planning to submit at DISC 2020 conference.

## TECHNICAL PROJECTS

### CERTIFICATE AUTHORITY | GITHUB

- Implemented a simple certificate authority, including Web Server, Authorisation Server, Firewall/Proxy, Core CA, Backup Server.
- Reviewed the design and implementation of other groups, by doing penetration testing and risk analysis.

### COLLABORATIVE FILTERING | GITHUB, KAGGLE COMPETITION

- Developed a novel solution for predicting movie ratings by proposing a fully Bayesian treatment of user-movie ratings as a mixture of low rank matrix approximations
- 4<sup>th</sup> place at Kaggle competition among all groups at ETH

### MIDDLEWARE | GITLAB

- Designed and developed a middleware platform for key value stores
- Evaluated, analyzed and reported the performance of the system

### DYNAMIC SCHEDULER | GITHUB

- Built a middleware to manage scientific simulations on the high performance computer **bwUniCluster** in Karlsruhe.

## SCHOLARSHIPS & AWARDS

### FULL SCHOLARSHIPS

2017	1 of 5 students to win in that year	ESOP
2013	1 of 120 students from all over the world	DAAD

### AWARDS

2014	1 <sup>st</sup> prize	Outstanding performance in Feststellungsprüfung, Studienkolleg Karlsruhe
2008	1 <sup>st</sup> prize	Arskosova international music competition in guitar
2007	1 <sup>st</sup> prize	Arskosova international music competition in guitar

## HOBBIES & INTERESTS

Chess, Puzzles, Guitar, Football, Table tennis, Travelling, Investing, Entrepreneurship, Ethical Hacking