

# Aleksa Stanković

Department of Mathematics, Lindstedtsvägen 25, 100 44 Stockholm, Sweden (SE)  
✉ aleksas@kth.se ✉ stankovic.s.aleksa@gmail.com  
+46 (73) 080-4684 • stankovicaleksa.net



## EDUCATION

### KTH Royal Institute of Technology, Stockholm, Sweden

- **Ph.D. in Mathematics** 15 Aug 2018 – today
  - Advisors: Johan Håstad, Per Austrin
  - Area: Computational complexity, sum-of-squares hierarchy, approximation algorithms and hardness of approximation
  - Expected finish in 15 Aug 2023.

### École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, CH

- **M.Sc. in Computational Science and Engineering** 15 Sep 2015 – 21 Jan 2018
  - Thesis: Probabilistic methods for differential equations: adaptivity and Bayesian inverse problems. Advised by Prof. Assyr Abdulle and Giacomo Garegnani.
  - Cumulative GPA: 5.44 / 6.00

### University of Belgrade, Belgrade, Serbia, RS

- **B.A. in Theoretical Mathematics with Applications** 01 Sep 2011 – 20 Aug 2015
  - Cumulative GPA: 9.39 / 10.00

### Union University, School of Computer Sciences, Belgrade, Serbia, RS

- **B.A. in Computer Science** 01 Sep 2011 – 25 Aug 2015
  - Thesis: Factorization of large numbers using general number field sieve. Advised by Prof. Dragan Urošević.
  - Cumulative GPA: 9.33 / 10.00

## PUBLICATIONS

- Amey Bhangale, A. Stanković, **Max-3-Lin over Non-Abelian Groups with Universal Factor Graphs**, 13th Innovations in Theoretical Computer Science Conference, ITCS 2022.
- A. Stanković, **On Regularity of Max-CSPs and Min-CSPs**, Information Processing Letters, Volume 176, 2022, 106244, ISSN 0020-0190, .
- P. Austrin and A. Stanković, **Global Cardinality Constraints Make Approximating Some Max-2-CSPs Harder**, in *22nd International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2019)*, Cambridge, Massachusetts, USA, Sep 2019.

## HONORS & AWARDS

- **2nd place**, Yandex Santa's Algorithmic Challenge. 2016
- **3rd team**, Helvetic Coding Contest 2016  
3rd best student team on Swiss Universities competition in competitive programming.
- **Silver medal**, ACM-SWERC. 2015  
Awarded in Porto, at 2015 Southwestern Europe Regional Contest.
- **3rd place** at All-EPFL competitive programming contest; First EPFL-team. 2015
- Participant on International Olympiad in Informatics. 2009, 2011
- **Silver medal**, Balkan Olympiad in Informatics. 2011

## PROFESSIONAL ACTIVITIES

### PhD representative for program in Mathematics at KTH

KTH Royal Institute of Technology, Sweden 01 Jan 2021 – 01 Jan 2022

### Organizing committee member: PhD Math Fest

Conference organized for PhDs in pure and applied Mathematics from Stockholm and neighbouring areas, Sweden  
01 Jan 2022 – 03 Jun 2022

## OTHER WORK EXPERIENCE

### Prolific research, Geneva, Switzerland, CH

- Software developer 01 Jun 2018 – 01 Aug 2018
  - Implemented trading engine for Bitmex/Bitfinex/Gdax/Kraken crypto exchanges.

### Nafora SA, Lausanne, Switzerland, CH

- Software developer/Algorithmic Trading Researcher 14 Feb 2017 – 15 Jul 2017

- Research and development of trading strategies
- Data related tasks - fixing errors/noise and introducing new sources of data
- Improving the quality of the existing code and implementing new features in proprietary trading infrastructure

**Akantu, Computational Solid Mechanics Laboratory (LSMS), EPFL** , Lausanne, Switzerland, CH

- Software development intern  
15 Apr 2016 – 15 Jul 2016;  
15 Aug 2016 – 15 Sep 2016
- Creating web 3D interface using WebGL to underlying general purpose Finite-Elements library

#### **LANGUAGES**

- English: Fluent (C1).
- Serbian: Native (C2).
- German: Intermediate (B1/B2).
- French: Basic (A2/B1).

#### **SKILLS**

Python, C++, Java, ASM, Matlab