Andrei Tonkikh

+7(904)856-51-29 andrei.tonkikh@gmail.com

LinkedIn (andrei-tonkikh) **GitHub** (xosmig) **Google Scholar** (Andrei Tonkikh)

Education

- **Ph.D. in CS**, intended *starting 2021*
- **MSc in CS**, NRU HSE, Saint Petersburg, Russia *2019 – 2021*
  - Graduation expected in June 2021.
- **BSc in CS**, NRU HSE, Saint Petersburg, Russia *2018 – 2019*

Publications

*(in the field of distributed computing authors are usually listed in **alphabetical order**)*

- **"Revisiting Optimal Resilience of Fast Byzantine Consensus."** *submitted to PODC 2021*
  - P. Kuznetsov, **A. Tonkikh**, Y. X. Zhang
- **"Dynamic Byzantine Reliable Broadcast."** *OPODIS 2020*
  - R. Guerraoui, **J. Komatovic**, Petr Kuznetsov, Y.-A. Pignolet, D.-A. Seredinschi, A. Tonkikh
  - Extended version: *arxiv.org/pdf/2001.06271v2.pdf*
- **"Asynchronous Reconfiguration with Byzantine Failures."** *DISC 2020*
  - P. Kuznetsov, **A. Tonkikh**
  - **Selected for the special edition of the "Distributed Computing" journal.**
  - Video presentation: *www.youtube.com/watch?v=pWgseNI-gIg*
  - Extended version: *arxiv.org/pdf/2005.13499.pdf*
- **"Online Payments by Merely Broadcasting Messages."** *DSN 2020*
  - D. Collins, R. Guerraoui, J. Komatovic, P. Kuznetsov, M. Monti, M. Pavlovic, Y.-A. Pignolet, D.-A. Seredinschi, A. Tonkikh, **A. Xygkis**
  - **Nominated for the best paper award.**
  - Extended version: *arxiv.org/pdf/2004.13184.pdf*

Work Experience

- **Research Intern at Télécom Paris**, Palaiseau, France *March 2020 – April 2020*
  - Studied asynchronous reconfiguration of Byzantine fault-tolerant distributed systems.
- **Junior SWE at Yandex**, Saint Petersburg, Russia *January 2019 – February 2020*
  - Developed a novel job scheduling algorithm for a large scale distributed computing platform. The new paradigm distributes resources more efficiently and provides more rigorous performance guarantees.
- **SWE Intern at Yandex**, Moscow, Russia *July 2018 – December 2018*
  - Enhanced job scheduling algorithms for YT – the largest distributed computing platform at Yandex.
- **SRE Intern at Google**, London, UK *July 2017 – September 2017*
  - Improved the black box monitoring system for Google Cloud Engine.

Programming Languages

C++, C, Go, Kotlin, Java, Rust, Python, Haskell, Scala

Summer Schools

- **Summer School on Practice and Theory of Distributed Computing**, Online *July 2020*
- **Summer School on Practice and Theory of Distributed Computing**, St. Petersburg *July 2019*
  - Won a prize for the best exercise solutions.