

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 in 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.