Andrei Tonkikh

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

in **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*
  · Was part of Traffic Team SRE and 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.