

Nikolaos Alexopoulos

Curriculum Vitae

Education

- 2016 – present **Doctoral candidate**, *Telecooperation Lab*, Technische Universität Darmstadt, Darmstadt Germany, Topic: *Revisiting software security measurement: An empirical quantified approach*.
- 2010–2016 **Diploma (5-year degree - 300 ECTS - MEng equivalent)**, *School of Electrical and Computer Engineering*, National Technical University of Athens (Greece), Grade: 9.18/10.00 (*distinction*).

Research Interests

Security metrics and measurement
Decentralized trust management
Anonymous communication

Experience

Academic

- May 2016 – present **Researcher (Wissenschaftlicher Mitarbeiter)**, *Technische Universität Darmstadt*, Darmstadt, Germany.
Part of the Telecooperation Lab under the supervision of Prof. Max Mühlhäuser. Part of the National Research Center for Applied Cybersecurity (ATHENE).
- October 2015 **Research Partner**, *University of Athens*, Athens, Greece.
- March 2016 Researcher in the EU Horizon 2020 PANORAMIX project under the supervision of Prof. Aggelos Kiayias.
- 2014 –2015 **Member of the crypto group**, *NTUA*, Athens, Greece.
Attended several presentations on crypto-related topics and gave presentations on mixnets and Zero-Knowledge proofs.

Miscellaneous

- 2013–2015 **Personal Tutor**.
Tutored high-school students on the subjects of mathematics, physics, chemistry.

Awards and Achievements

- [2010] Eurobank EFG Award for achieving the highest grade (19 726/20 000) in the PanHellenic Examinations among the students of my high-school. (1000 €).
- [2010] National Physics Competition (Union of Greek Physicists): 2nd place (1st round), 16th place (2nd round).

Languages

Greek	Excellent	<i>Native Speaker</i>
English	Excellent	<i>Cambridge Proficiency (Grade A), Michigan Proficiency</i>
German	Intermediate	<i>Goethe-Zertificat B2</i>

Programming Skills

Imperative	Very good	<i>C/C++, Python, Java, Assembly (80x85/86, AVR)</i>
Functional	Good	<i>ML, Haskell</i>
Database	Good	<i>SQL</i>
Parallel	Good	<i>MPI, OpenMP, CUDA, Posix Threads</i>
Logic	Intermediate	<i>Prolog</i>

Operating Systems Skills

Unix/Linux	Very good
Microsoft Windows	Good

Selected Publications

- [1] Nikolaos Alexopoulos, Jörg Daubert, Max Mühlhäuser, and Sheikh Mahbub Habib. Beyond the Hype: On Using Blockchains in Trust Management for Authentication. In *Proceedings of the 16th IEEE International Conference On Trust, Security And Privacy In Computing And Communications (IEEE TrustCom-17)*. IEEE, 2017.
- [2] Nikolaos Alexopoulos, Sheikh Mahbub Habib, Steffen Schulz, and Max Mühlhäuser. M-star: A modular, evidence-based software trustworthiness framework. *arXiv preprint arXiv:1801.05764*, 2018.
- [3] Nikolaos Alexopoulos, Aggelos Kiayias, Riivo Talviste, and Thomas Zacharias. MCMix: anonymous messaging via secure multiparty computation. In *26th USENIX Security Symposium*, 2017.
- [4] Nikolaos Alexopoulos, Emmanouil Vasilomanolakis, Stephane Le Roux, Steven Rowe, and Max Mühlhäuser. TRIDEnT: Towards a decentralized threat indicator marketplace. In *Proceedings of the Symposium on Applied Computing (SAC)*. ACM, 2020. (to appear).
- [5] Leon Böck, Nikolaos Alexopoulos, Emine Saracoglu, Max Mühlhäuser, and Emmanouil Vasilomanolakis. Assessing the threat of blockchain-based botnets. In *eCrime 2019: Symposium on Electronic Crime Research*, November 2019. (to appear).

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