CURRICULUM VITAE

18.05.2023

Personal Information

Name:	Janno Siim
Date of birth:	18.03.1992
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EDUCATION

2016 - 2020	**PhD Degree in Computer Science** University of Tartu, Institute of Computer Science
2014 - 2016	**Master's Degree in Computer Science *(cum laude)*** University of Tartu, Faculty of Mathematics and Computer Science
2011- 2014	**Bachelor's Degree in Computer Science *(cum laude)*** University of Tartu, Faculty of Mathematics and Computer Science
2008 - 2011	Kuressaare Secondary School
1998 - 2008	Kaarma Primary School

EMPLOYMENT

2022 -	Postdoctoral Fellow, Simula UiB
2021 - 2022	Research Fellow in Cryptography, University of Tartu
2020 (6 months)	Research Associate, University of Edinburgh
2016 - 2020	Junior Research Fellow in Cryptography, University of Tartu
2019	Teaching assistant, University of Tartu Course: Cryptographic Protocols
2016 - 2018	Junior Researcher, Software Technology and Applications Competence Center (STACC)
2016	Research Project Specialist, University of Tartu

2015	Teaching assistant, University of Tartu
	Course: Algorithms and Data Structures
2014	Teaching assistant, University of Tartu
	Course: Elements of Discrete Mathematics

SKILLS

Languages	Estonian (Native language), English (excellent), Russian (beginner), German (beginner), Norwegian (beginner)
Programming	Some experience in C++, Java, Python, and several other languages.

RESEARCH INTERESTS

My main research interests are efficient cryptographic protocols. In particular, efficient non-interactive zero-knowledge proofs (e.g., SNARKs), commitment schemes, and electronic voting.

THESIS

1. PhD thesis, Non-Interactive Shuffle Arguments, 2020.
2. Master's thesis, Secure and Efficient Mix-Nets. 2016.

PUBLICATIONS

1. Matteo Campanelli, Chaya Ganesh, Hamidreza Khoshakhlagh, Hamidreza Khoshakhlagh, **Janno Siim**. *Impossibilities in Succinct Arguments: Black-box Extraction and More.* To appear in Africacrypt 2023.
2. Helger Lipmaa, **Janno Siim**, Michal Zajac. *Counting vampires: from univariate sumcheck to updatable ZK-SNARK*. In: Agrawal, S., Lin, D. (eds) Advances in Cryptology – ASIACRYPT 2022. ASIACRYPT 2022. Lecture Notes in Computer Science, vol 13792. Springer, Cham.
3. Markulf Kohlweiss, Mary Maller, **Janno Siim**, Mikhail Volkhov. *Snarky Ceremonies.* In: Tibouchi, M., Wang, H. (eds) Advances in Cryptology – ASIACRYPT 2021. ASIACRYPT 2021. Lecture Notes in Computer Science, vol 13092. Springer, Cham.
4. Prastudy Fauzi, Helger Lipmaa, **Janno Siim**, Michal Zajac, and Arne Tobias Ødegaard. *Verifiably-Extractable OWFs and Their Applications to Subversion Zero-Knowledge.* In: Tibouchi, M., Wang, H. (eds) Advances in Cryptology – ASIACRYPT 2021. ASIACRYPT 2021. Lecture Notes in Computer Science(), vol 13093. Springer, Cham.
5. Karim Baghery, Markulf Kohlweiss, **Janno Siim**, Mikhail Volkhov. *Another Look at Extraction and Randomization of Groth's zk-SNARK.* In: Borisov N., Diaz C. (eds) Financial

Cryptography and Data Security. FC 2021. Lecture Notes in Computer Science, vol 12674. Springer, Berlin, Heidelberg.

6. Prastudy Fauzi , Helger Lipmaa, Zaira Pindado, **Janno Siim**. *Somewhere Statistically Binding Commitment Schemes with Applications.* In: Borisov N., Diaz C. (eds) Financial Cryptography and Data Security. FC 2021. Lecture Notes in Computer Science, vol 12674. Springer, Berlin, Heidelberg.
7. Behzad Abdolmaleki, Helger Lipmaa, **Janno Siim**, and Michal Zajac. *On Subversion-Resistant SNARKs.* Journal of Cryptology, Volume 34, Issue 3. Springer, 2021.
8. Behzad Abdolmaleki, Helger Lipmaa, **Janno Siim**, and Michal Zajac. *On QA-NIZK in the BPK Model.* In: PKC 2020, Part I. LNCS, volume 12110, pages 590-620.
9. Antonis Aggelakis, Prastudy Fauzi, Georgios Korfatis, Panos Louridas, Foteinos Mergoupis-Anagnou, **Janno Siim**, and Michal Zajac. *A Non-interactive Shuffle Argument With Low Trust Assumptions.* In CT-RSA 2020, LNCS, volume 12006, pages 667-692. Springer, Cham, 2020.
10. Behzad Abdolmaleki, Karim Baghery, Helger Lipmaa, **Janno Siim**, and Michal Zajac. *UC-secure CRS generation for SNARKs.* In AFRICACRYPT 19, LNCS, pages 99–117. Springer, Heidelberg, 2019.
11. Behzad Abdolmaleki, Karim Baghery, Helger Lipmaa, **Janno Siim**, and Michal Zajac. *DL-extractable UC-commitment Schemes.* In ACNS 19, LNCS, pages 385–405. Springer, Heidelberg, 2019.
12. Sven Heiberg, **Janno Siim**, Ivo Kubjas, Jan Willemson. *On Trade-offs of Applying Block Chains for Electronic Voting Bulletin Boards.* Proceedings of the Third International Joint Conference on Electronic Voting E-Vote-ID 2018: E-Vote-ID 2018, October 2-5, 2018, Bregenz, Austria. Ed. Robert Krimmer, Melanie Volkamer, Véronique Cortier, David Duenas-Cid, Rajeev Goré, Manik Hapsara, Reto Koenig, Steven Martin, Ronan McDermott, Peter Roenne, Uwe Serdült, Tomasz Truderung. TUT Press, 259-276.
13. Aggelos Kiayias, Annabell Kuldmaa, Helger Lipmaa, **Janno Siim**, and Thomas Zacharias. *On the Security Properties of E-voting Bulletin Boards.* In Dario Catalano and Roberto De Prisco, editors, SCN 18, volume 11035 of LNCS, pages 505–523. Springer, Heidelberg, September 2018.
14. Prastudy Fauzi, Helger Lipmaa**, Janno Siim**, and Michal Zajac. *An Efficient Pairing-based Shuffle Argument.* In Tsuyoshi Takagi and Thomas Peyrin, editors, ASIACRYPT 2017, Part II, volume 10625 of LNCS, pages 97–127. Springer, Heidelberg, December 2017.
15. Rein Prank, Heiki Pärn, **Janno Siim**. *Interactive Environment For Exercises In Graph Theory.* EDULEARN15 Proceedings: 7th International Conference on Education and New Learning Technologies, IATED, pages 4897−4905. July, 2015.

SIGNIFICANT PRESENTATIONS

1. Asiacrypt 2022, Taipei, Taiwan. Paper presentation.
2. Bergen central bank digital currency conference, 2022. Invited talk on privacy tools in distributed ledgers.
3. Asiacrypt 2021, online. Paper presentation.
4. Financial Cryptography and Data Security 2021, online. Paper presentation.
5. Estonian-Latvian theory days 2018 and 2019. Presentations on various research results.
6. CT-RSA 2020, San Francisco, USA. Paper presentation.
7. Africacrypt 2018, Rabat, Morocco. Paper presentation.

8. SCN 2018, Amalfi, Italy. Paper presentation.
9. Asiacrypt 2017, Hong Kong, China. Paper presentation.
10. EDULEARN15, Barcelona, Spain. Paper presentation.

COMMUNITY WORK

1. Eurocrypt 2023 Program committee member.
2. ACNS 2021 Program committee member.
3. 4th ZKProof Workshop (2021) - Standardization proposal for SNARK ceremonies (with Markulf Kohlweiss, Mary Maller, and Mikhail Volkhov)