

Rutchathon (Champ) Chairattana-apirom

Curriculum Vitae

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Education

- 2022–present **PhD, Computer Science & Engineering, University of Washington.**
Seattle, Washington, USA
Advisor: Stefano Tessaro
- 2018–2022 **Bachelor of Science, Computer Science, Brown University.**
Providence, Rhode Island, USA
Thesis advisor: Anna Lysyanskaya

Publications

Conference Papers

Rutchathon Chairattana-Apirom, Dennis Hofheinz, and Stefano Tessaro. **Tight Security for BBS Signatures.** In *EUROCRYPT*, 2026, to appear.

Rutchathon Chairattana-Apirom, Nico Döttling, Anna Lysyanskaya, and Stefano Tessaro. **Everlasting Anonymous Rate-Limited Tokens.** In Goichiro Hanaoka and Bo-Yin Yang, editors, *Advances in Cryptology – ASIACRYPT 2025*, pages 435–468, Singapore, 2026. Springer Nature Singapore.

Rutchathon Chairattana-Apirom and Stefano Tessaro. **On the Concrete Security of BBS/BBS+ Signatures.** In Goichiro Hanaoka and Bo-Yin Yang, editors, *Advances in Cryptology – ASIACRYPT 2025*, pages 402–434, Singapore, 2026. Springer Nature Singapore.

Rutchathon Chairattana-Apirom, Franklin Harding, Anna Lysyanskaya, and Stefano Tessaro. **Server-Aided Anonymous Credentials.** In Yael Tauman Kalai and Seny F. Kamara, editors, *Advances in Cryptology – CRYPTO 2025*, pages 291–324, Cham, 2025. Springer Nature Switzerland.

Rutchathon Chairattana-Apirom, Stefano Tessaro, and Chenzhi Zhu. **Partially Non-Interactive Two-Round Lattice-Based Threshold Signatures.** In Kai-Min Chung and Yu Sasaki, editors, *Advances in Cryptology – ASIACRYPT 2024*, pages 268–302, Singapore, 2025. Springer Nature Singapore.

Rutchathon Chairattana-Apirom, Stefano Tessaro, and Chenzhi Zhu. **Pairing-Free Blind Signatures from CDH Assumptions.** In Leonid Reyzin and Douglas Stebila, editors,

Advances in Cryptology – CRYPTO 2024, pages 174–209, Cham, 2024. Springer Nature Switzerland.

Rutchathon Chairattana-Apirom, Lucjan Hanzlik, Julian Loss, Anna Lysyanskaya, and Benedikt Wagner. **PI-Cut-Choo and Friends: Compact Blind Signatures via Parallel Instance Cut-and-Choose and More**. In Yevgeniy Dodis and Thomas Shrimpton, editors, *Advances in Cryptology – CRYPTO 2022*, pages 3–31. Springer Nature Switzerland, 2022.

Manuscripts

Rutchathon Chairattana-Apirom, Stefano Tessaro, and Nirvan Tyagi. **Fraud Mitigation in Privacy-Preserving Attribution**, 2025. Manuscript. <https://ia.cr/2025/1891>.

Talks

Everlasting Rate-Limited Anonymous Tokens.

- ASIACRYPT 2025
- Google Research (Virtual), January 2026

On the Concrete Security of BBS/BBS+ Signatures.

- ASIACRYPT 2025
- Cryptography Reading Group at Microsoft Research (Redmond, WA), November 2025

Server-Aided Anonymous Credentials. Foundations of Cryptography Reading Group, ETH (Zürich, Switzerland), July 2025

Partially Non-Interactive Two-Round Lattice-Based Threshold Signatures. ASIACRYPT 2024.

Pairing-Free Blind Signatures from CDH Assumptions. CRYPTO 2024.

PI-Cut-Choo and Friends: Compact Blind Signatures via Parallel Instance Cut-and-Choose and More. CRYPTO 2022.

Teaching Assistantship

- Spring 2025 **CSE 526: Graduate Cryptography**, University of Washington.
- Spring 2023 **CSEP 590D: Professional Master’s Program Special Topics: Applied Cryptography**, University of Washington.
- Spring 2022 **CSCI 1550: Probabilistic Methods in Computer Science**, Brown University.
- Fall 2021 **CSCI 1510: Introduction to Cryptography and Computer Security**, Brown University.
- Summer 2021 **CSCI 1951L: Blockchains and Cryptocurrencies**, Brown University.
- Fall 2020 **CSCI 1010: Theory of Computation**, Brown University.
- Spring 2020 **CSCI 1950Y: Logic for Systems**, Brown University.

Awards and Academic Achievements

- 2022–2023 **Anne Dinning – Michael Wolf Endowed Regental Fellowship in Computer Science & Engineering**, *University of Washington*.
Fellowship awarded to incoming PhD student.

2022 **Brown CS Senior Prize**, *Brown University*.

Fellowship awarded to graduating students for academic excellence and for outstanding service to the department.

2019 **Third Place award**, *ICPC Northeast North America Regional Contest*.

Professional Service

External reviewer for TCC (2024,2025), EUROCRYPT (2025, 2026), CRYPTO (2025), ASIACRYPT (2025).

Skills

Programming Languages Python, C++, \LaTeX

Languages English (fluent), Thai (native)