

CURRICULUM VITAE – CHELSEA H. KOMLO

- PERSONAL INFORMATION** Chelsea H. Komlo
me@chelseakomlo.com; www.chelseakomlo.com
- PEER-REVIEWED JOURNAL PUBLICATIONS** Bailey Kacsmar, Chelsea Komlo, Florian Kerschbaum, Ian Goldberg. "**Mind the Gap: Ceremonies for Applied Secret Sharing.**" Proceedings on Privacy Enhancing Technologies. Vol. 2020, No. 2. 18 pages. April 2020.
- PEER-REVIEWED CONFERENCE AND WORKSHOP PUBLICATIONS** Chelsea Komlo, Nick Mathewson, Ian Goldberg. "**Walking Onions: Scaling Anonymity Networks while Protecting Users.**" 29th USENIX Security Symposium. 18 pages. August 2020.
- Chelsea Komlo, Ian Goldberg. "**FROST: Flexible Round-Optimized Schnorr Threshold Signatures.**" Conference on Selected Areas in Cryptography, 2020.
- ONGOING RESEARCH** **Privacy-Preserving Post-Quantum Key Exchange.** Collaboration to define existing key exchange protocols that utilize privacy-preserving properties in a post-quantum setting.
- PUBLIC LECTURES** "**State-Level Secrets: When Theory Meets Practice for Journalists Working with Encrypted Documents.**" Real World Crypto, 2019.
- "**Where Theory Meets Practice for Privacy Enhancing Technologies.**" University of Waterloo CrySP Speaker Series, 2018.
- WORK EXPERIENCE** **2019** → **Present** Currently serving as a principal technical advisor and researcher at the Zcash Foundation. Contributes to and drives technology strategy for the Foundation.
- 2017** → **2018** Core engineer at HashiCorp, worked on Nomad, a high-performance distributed scheduling tool, as well contributed to other projects such as improving the security of underlying gossip protocols.
- 2013** → **2017** Senior software engineer at ThoughtWorks, a global technology consulting company. Worked on projects including open-source contributions to Enigmail, Tor, and OTRv4, as well as enterprise software projects in both an engineering, strategy, and security consulting role.
- OTHER SERVICES** **2020** → **Present** Member of The Tor Project Board of Directors
- 2020** Program Committee, 19th Workshop on Privacy in the Electronic Society
- 2020** → **Present** External Reviewer, Privacy Enhancing Technologies (PETs) Symposium
- 2019** → **Present** Member of the Tor Research Safety Board.

EDUCATION

PhD in Mathematics Currently completing my PhD in the Cryptography, Security, and Privacy lab at the University of Waterloo under the supervision of Dr. Ian Goldberg and Dr. Douglas Stebila. Recipient of the David R. Cheriton Graduate Scholarship and the Provost Doctoral Entrance Award for Women.

Masters Degree in Mathematics Completed a masters degree in the Cryptography, Security, and Privacy Lab at the University of Waterloo.