

MAX TROMANHAUSER

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EDUCATION

Cornell University Doctor of Philosophy, Computer Science <i>Advised by Nicholas Spooner</i>	Ithaca, NY 2024 – Present
Brown University Master of Science, Computer Science <i>Advised by Peihan Miao</i>	Providence, RI 2022 – 2024
University of Pennsylvania Bachelor of Science in Engineering, Computer Science	Philadelphia, PA 2012 – 2016

ACADEMIC PUBLICATIONS

On Removing Interaction from Quantum Proofs (<i>In Submission</i>) Nicholas Spooner and Max Tromanhauser QCRYPT 2026.	2026
4-Message Quantum Zero Knowledge for QMA with EQPT_c Simulation Santiago Li, Nicholas Spooner, Max Tromanhauser, and Ran Canetti. QIP 2026 (POSTER).	
Pseudorandom Correlation Generators for Multiparty Beaver Triples over \mathbb{F}_2 Peihan Miao, Alice Murphy, Akshayaram Srinivasan, and Max Tromanhauser. ASIACRYPT 2025.	2025
Finding Balance in Unbalanced PSI: A New Construction from Single-Server PIR Chengyu Lin, Zeyu Liu, Peihan Miao, and Max Tromanhauser. IACR COMMUNICATIONS IN CRYPTOGRAPHY 2025, VOLUME 2, ISSUE 1.	
Updatable Private Set Intersection Revisited: Extended Functionalities, Deletion, and Worst-Case Complexity Saikrishna Badrinarayanan, Peihan Miao, Xinyi Shi, Max Tromanhauser, and Ruida Zeng. ASIACRYPT 2024.	2024

TEACHING EXPERIENCE

Cornell University Teaching Assistant, <i>Quantum Cryptography</i>	Ithaca, NY 2025
Brown University Teaching Assistant, <i>Data Engineering</i>	Providence, RI 2022
University of Pennsylvania Head Teaching Assistant, <i>Introduction to Computer Programming</i> Teaching Assistant, <i>Introduction to Computer Programming</i> Teaching Assistant, <i>JavaScript</i>	Philadelphia, PA 2015 – 2016 2013 – 2014 2015

INDUSTRY EXPERIENCE

Flatiron Health Senior Software Engineer, <i>Clinical Research</i> Software Engineer, <i>Real World Evidence</i>	New York, NY 2020 – 2022 2017 – 2019
Microsoft Software Engineer, <i>Azure Active Directory</i>	Redmond, WA 2016 – 2017

INDUSTRY PUBLICATIONS

**P10.14 ctDNA and Real-World Response (rwR) in Patients With Lung Cancer
From A Prospective Real-World Clinico-Genomic (PCG) Study** 2021

A. Vanderwalde, M. Lu, S. Maund, M. Huntley, D. Incerti, A. Fine, K. Tolba, D. Jin, A. Bourla, A. Sondhi,
M. Tromanhauser, D. Daniel, J. Tilford, J. McFarlane, S. Lakhanpal, G. Oxnard, and K. Schulze.
WORLD CONFERENCE ON LUNG CANCER 2021, VIRTUAL (Poster).

**Approximating International Myeloma Working Group Uniform Response Criteria to Derive
Response for Multiple Myeloma (MM) Patients Using Data from Electronic Health Records (EHR)** 2019

R. Foster, M. Tromanhauser, C. Gayer, P. Gonzales, K. Maignan, A. Opong, A. Torres, and K. Carson.
AMERICAN SOCIETY FOR HEMATOLOGY ANNUAL MEETING AND EXPOSITION 2019 (Poster).

PATENTS

Systems and methods for managing clinical trials (No. US11742061B2) 2023

A. Padmos, A. Leung, J. Buddle, L. Sutton, M. Tromanhauser, S. Lee, and A. Hogan.

HONORS AND AWARDS

Hartmanis Fellowship 2024 – 2025

Full tuition and stipend for one academic year.

CIS Senior Design Second Prize Award 2016

SERVICE

Conference Reviewer. TCC 2023, EUROCRYPT 2025, CRYPTO 2025, TCC 2025, STOC 2026, TQC 2026.