

# MAX TROMANHAUSER

max.troman.haus ◊ mft55@cornell.edu

## EDUCATION

---

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

## ACADEMIC PUBLICATIONS

---

<b>Pseudorandom Correlation Generators for Multiparty Beaver Triples over <math>\mathbb{F}_2</math></b> Peihan Miao, Alice Murphy, Akshayaram Srinivasan, and Max Tromanhauser. ASIACRYPT 2025.	2025
<b>Finding Balance in Unbalanced PSI: A New Construction from Single-Server PIR</b> Chengyu Lin, Zeyu Liu, Peihan Miao, and Max Tromanhauser. IACR COMMUNICATIONS IN CRYPTOGRAPHY 2025, VOLUME 2, ISSUE 1.	
<b>Updatable Private Set Intersection Revisited: Extended Functionalities, Deletion, and Worst-Case Complexity</b> Saikrishna Badrinarayanan, Peihan Miao, Xinyi Shi, Max Tromanhauser, and Ruida Zeng. ASIACRYPT 2024.	2024

## TEACHING EXPERIENCE

---

<b>Cornell University</b> Teaching Assistant, <i>Quantum Cryptography</i>	Ithaca, NY 2025
<b>Brown University</b> Teaching Assistant, <i>Data Engineering</i>	Providence, RI 2022
<b>University of Pennsylvania</b> 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

---

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

## INDUSTRY PUBLICATIONS

---

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

**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.