JESSE COMER.

University of Pennsylvania

jessecomer.github.io ♦ jacomer@seas.upenn.edu

RESEARCH INTERESTS

Database Theory, (Finite) Model Theory, Computational Complexity

EDUCATION

PhD Candidate, Computer and Information Science, University of Pennsylvania 2023 - Present

M.S., Computer Science, University of Texas at Austin

Aug 2023

M.Sc., Logic, University of Amsterdam

Aug 2023

B.A., Economics, University of California, Los Angeles

Dec 2016

TEACHING

Teaching Assistant, University of Texas at Austin

Jan 2023 - May 2023

- Algorithms (CS 388G, graduate-level course)
- Conduct weekly office hours to assist students with class material and homework assignments
- Monitor and answer student questions on the course discussion board
- Grade homework assignments and exams

Tutor, University of California Los Angeles

Sep 2015 - Dec 2016

- Sequence in formal logic (PHIL 31/132, undergraduate-level courses)
- Conduct weekly office hours to assist students with class material and homework assignments

OTHER WORK HISTORY

United States Marine Corps, Reserve. Field Artillery Officer.

Jul 2021 - Present

• Billet: Battalion Fire Direction Officer

United States Marine Corps. Field Artillery Officer.

Feb 2017 - Jul 2021

- Billets: Fire Direction Officer, Platoon Commander, Fire Support Officer
- Deployed with the 15th Marine Expeditionary Unit

PUBLICATIONS

Lovàsz Theorems for Modal Languages.

Under review.

J. Comer.

Time-Bounded Resilience.

WRLA 2024.

T. Ban Kirigin, J. Comer, M. Kanovich, A. Scedrov, C. Talcott.

Craig Interpolation for Decidable First-Order Fragments.

FoSSaCS 2024.

B. ten Cate, J. Comer.

CONTRIBUTED TALKS

• B. ten Cate, J. Comer. Craig Interpolation for Guarded Fragments.

DPFO 2023.

MASTER'S THESIS

• J. Comer. Homomorphism Counts, Database Queries, and Modal Logics.

ILLC e-prints.