

Spencer Peters

PhD Candidate, Cornell CIS
2019-2024



@spencerjpeters
cs.cornell.edu/~speters/
sp2473@cornell.edu

Internship Experience

Jane Street Quant Research Intern, Summer'19
Analyzed market data and tested novel modeling techniques.

Microsoft Research Research Intern, Spring'19
Studied the effects of disorder in semiconductor-superconductor nanowires.

Microsoft Research Research Intern, Summer'18
Extended automated physics simulation toolkits with new numerical solvers.

Extracurriculars

Cornell Buds Men's Ultimate A Team

GRASSHOPR Teaching and Outreach (2022)

Dep't Czar Colloquium, Social Hour (2019-2020)

Keeton House Graduate Resident Fellow 2022-
Mentoring undergraduates in a vibrant living-learning community.

Cornell CIS Visit Day Scheduling 2021, 2022
Scheduled ~500 student-faculty meetings with Python and Z3.

Undergraduate

University of Washington 2014-2019
Computer Science and Comprehensive Physics
(Minor in Mathematics, and Interdisciplinary Honors)
Magna Cum Laude

Research

Lattice Problems in General Norms:
Algorithms with Explicit Constants, Dimension-Preserving Reductions, and More.
Huck Bennett, Yanlin Chen, Zeyong Li, and **SP** (2022)
Manuscript.

The (im)possibility of simple search to decision reductions for approximate optimization.
Alexander Golovnev, Siyao Guo, **SP**, Noah Stephens-Davidowitz.
[ECCC Preprint.](#)

Revisiting Time-Space Tradeoffs for Function Inversion.
Alexander Golovnev, Siyao Guo, SP, Noah Stephens-Davidowitz.
Manuscript.

Reasoning about Causal Models with Infinitely Many Variables.
Joseph Y. Halpern and SP. [AAAI'22.](#)

Causal Modeling with Infinitely Many Variables.
SP and Joseph Y. Halpern. [Arxiv preprint.](#)

Always Asking for Advice is Often Optimal.
SP, S. Banerjee, and Joseph Y. Halpern.
Manuscript.

Simons Institute

Visiting Student, Lattices Summer Cluster 2022

National University of Singapore

Visiting Student, Summer 2022

Awards and Honors

NSF GRFP
Honorable Mention 2021

Society of Physics Students
Leadership Award 2017

Cornell CIS Outstanding
TA 2020

Phi Beta Kappa

UW Physics
Dep't Fellowship 2018

Top 500 Putnam Score
2016 (Score: 36)

UW Physics
Andersen Award 2018

National Merit
Finalist 2014