

Seyed Sajjad Nezhadi

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EDUCATION

University of Maryland, College Park, Maryland.

- Doctor of Philosophy: Computer Science
- Advisors: Victor Albert and Matthew Coudron

2020 –

University of Toronto, Toronto, Canada.

- Honours Bachelor of Science: Mathematics and Computer Science
- Advisor: Henry Yuen

2015 – 2019

PUBLICATIONS

Nonlocal Games, Compression Theorems, and the Arithmetical Hierarchy.

Hamoon Mousavi, *Seyed Sajjad Nezhadi*, and Henry Yuen.

- In proceedings of *Symposium on Theory of Computing (STOC)* 2022.
- Presented as a **Plenary talk** at *Quantum Information Processing (QIP)* 2022.
- Presented at the *Tsirelson Memorial Workshop* 2022.
- arXiv:2110.04651.

Synchronous Values of Games.

J. William Helton, Hamoon Mousavi, *Seyed Sajjad Nezhadi*, Vern I. Paulsen, Travis B. Russell

- Presented at the *Tsirelson Memorial Workshop* 2022.
- arXiv:2109.14741.

On the complexity of zero gap MIP*.

Hamoon Mousavi, *Seyed Sajjad Nezhadi*, and Henry Yuen.

- In proceedings of *International Colloquium on Automata, Languages, and Programming (ICALP)* 2020.
- Presented at *Theory of Quantum Computing (TQC)* 2020.
- arXiv:2002.10490

A generalization of CHSH and the algebraic structure of optimal strategies.

David Cui, Arthur Mehta, Hamoon Mousavi, and *Seyed Sajjad Nezhadi*.

- In *Quantum* **4**, 346 (2020).
- Presented at *Quantum Information Processing (QIP)* 2020.
- arXiv:1911.01593

TALKS

Nonlocal Games, Compression Theorems, and the Arithmetical Hierarchy.

Tsirelson Memorial Workshop, Apr 2022.

Synchronous Values of Games.

Tsirelson Memorial Workshop, Apr 2022.

Quantum computing for the gifted amateur.

Kurius, Mar 2022.

Generalization of CHSH.

University of Copenhagen, Jan 2022.

Computability and compression of nonlocal games.

University of Ottawa, Oct 2021.

Computability and compression of nonlocal games.

IQC-QuICS Math and Computer Science seminar, Mar 2021.

Quantum computing: why you should care!

Isfahan University of Technology, Mar 2021.

On the complexity of zero gap MIP*.

Theory of Quantum Computing (TQC), Jun 2020.

WORKSHOPS

Tsirelson Memorial Workshop.

IQOQI - Vienna, Apr 2022.

Non-local games in quantum information theory.

American Institute of Mathematics, May 2021.

**WORK
EXPERIENCE**

Xanadu, Toronto, Canada.

- Quantum Research Resident

May 2021 – Aug 2021

Agnostiq, Toronto, Canada.

- Quantum Applications Intern

Apr 2020 – Jul 2020

University of Toronto, Toronto, Canada.

- Research Assistant
 - Under supervision of Henry Yuen.

May 2019 – Apr 2020

Recycle Coach, Toronto, Canada.

- Software Engineer Intern

May 2017 – Aug 2017

Kik Interactive, Toronto, Canada.

- Software Developer

May 2016 – Aug 2016

TEACHING

University of Maryland

- Teaching Assistant
 - CMSC456 - Cryptography

Fall 2021

University of Waterloo, Centre for Extended Learning

- Assistant Instructor
 - DS2 - Statistics for Data Science

Winter, Summer, Fall 2020

University of Toronto

- Teaching Assistant
 - CSC343 - Introduction to Databases

Winter 2019

REVIEWING

Quantum Information processing (QIP)

LANGUAGES

English, Persian and French.

SKILLS

Python, Matlab, C++, SQL, Qiskit, Numpy, PyTorch, TensorFlow, \LaTeX .