Seyed Sajjad Nezhadi

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EDUCATION

University of Maryland, College Park, Maryland.
- Doctor of Philosophy: Computer Science   2020 –
  - Advisor: Matthew Coudron

University of Toronto, Toronto, Canada.
- Honours Bachelor of Science: Mathematics and Computer Science   2015 – 2019
  - Advisor: Henry Yuen

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.
Symposium on Theory of Computing (*STOC*), Jun 2022.

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 Ottowa, 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	***Quantum Error Correction Summer School.*** IBM, Jul 2022.
	Analysis on the hypercube with applications to quantum computing. American Institute of Mathematics, Jun 2022.
	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   May 2019 – Apr 2020
  - Under supervision of Henry Yuen.

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	QIP 2022, QCrypt 2022
LANGUAGES	English, Persian and French.
SKILLS	Python, Matlab, C++, SQL, Qiskit, Numpy, PyTorch, TensorFlow, LaTeX .