Jason O'Neill

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Education

2017–	**Ph.D Mathematics**, *UC San Diego*, Department of Mathematics.
	Advisor: Jacques Verstraëte
	Expected graduation: June 2022
2013–2017	**B.S. Mathematics**, *UCLA*.

Submitted Preprints

2021	A minimal Steiner-type problem (with Jacques Verstraëte) – In preparation
2021	Saturation problems for convex geometric hypergraphs (with Sam Spiro) – In preparation
2020	Extremal problems for pairs of triangles (with Zoltán Füredi, Dhruv Mubayi, and Jacques Verstraëte) - Submitted
2020	A note on k-wise oddtown problems (with Jacques Verstraëte) - Submitted
2018	A generalization of the Bollobás set pairs inequality (with Jacques Verstraëte) - Submitted

Publications

2021	Non-trivial d-wise intersecting families (with Jacques Verstraëte) - Journal of Combinatorial Series A, 178
2018	On the poset and asymptotics of Tesler matrices, The Electronic Journal of Combinatorics, 25(2)

Research talks

Winter 2020	UCSD Combinatorics Seminar
Nov. 2019	AMS Regional Special Sessions
April 2019	Graduate Student Combinatorics Conference at UPenn
March 2019	UCSD Combinatorics Seminar
Dec. 2017	UCLA Graduate Participating Seminar in Combinatorics

Teaching Experience

I have been a teaching assistant at UC San Diego in the following courses:

Fall 2020	Enumerative Combinatorics
Summer 2020	Introduction to Analysis II
Spring 2020	Modern Algebra II
Fall 2019	Extremal Combinatorics and Graph Theory
Fall 2019	Mathematical Reasoning
Spring 2019	Discrete Mathematics and Graph Theory
Winter 2019	Modern Algebra I
Fall 2018	Mathematical Reasoning

Summer 2018	Calculus
Spring 2018	Introduction To Cryptography
Winter 2018	Combinatorics
Fall 2017	Calculus For Science and Engineering

Service

2020–	UCSD Undergraduate Affairs committee member
2018–	Co-organizer of UCSD Graduate Student Combinatorics Seminar
2018–	Organizing Committee member for the Graduate Student Combinatorics Conference 2020
2018–	Volunteer for SD Refugee Tutoring
2018-	UCSD Graduate Affairs committee member
2018–	Founding member of UCSD Mathematics Graduate Student Council (MGSC)
2018–2020	UCSD Graduate Student Association (GSA) representative
2018–2020	GSA Climate Action and Policy Committee member
2018–2019	UCSD MGSC Vice Chair
2012	Assistant Instructor in summer school Algebra course

Experiences

2019	MSRI Summer School; The polynomial method
2015 - 2016	UCLA Mathematics VIGRE REU

Awards

2017	UCSD James B. Ax Fellowship