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Carnegie Mellon University
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Da Qi Chen

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RESEARCH INTERESTS

Combinatorial Optimization, Approximation Algorithms, Extremal Graph Theory

EDUCATION

Carnegie Mellon University – Pittsburgh, USA 2016-2021E
Doctoral Candidate
- Program: Algorithm, Combinatorics, and Optimization
- Advisor: R. Ravi

University of Waterloo – Waterloo, Canada 2015-2016
Master of Mathematics
- Department of Combinatorics and Optimization
- Thesis: Cyclically 5-Connected Graphs
- Advisor: Luke Postle

University of Waterloo – Waterloo, Canada 2011-2014
Bachelor of Mathematics
- Department: Statistics and Actuarial Science

PUBLICATIONS

Minimizing the Number of Edges in $K_{s,t}$-Saturated Bipartite Graphs
- Authors: Debsoumya Chakraborti, Da Qi Chen, Mihir Hasabnis
- arXiv: 2009.07651

Vertex Downgrading to Minimize Connectivity
- Authors: Hassene Assi, Da Qi Chen, R. Ravi
- Proceedings of the 17th Scandinavian Symposium and Workshops on Algorithm Theory 2020

Exact Results on Generalized Erdos-Gallai Problems
- Authors: Debsoumya Chakraborti, Da Qi Chen
- arXiv: 2006.04681

Many Cliques with Few Edges and Bounded Maximum Degree
- Authors: Debsoumya Chakraborti, Da Qi Chen
- arXiv: 2003.07943

PRESENTATIONS

Bipartite Saturation, Online November 2020
IBS Virtual Discrete Math Colloquium

Graph Interdiction, Carnegie Mellon University October 2020
SIAM Grad Student Mini-Conference

Vertex Downgrading to Minimize Connectivity, Online June 2020
17th Scandinavian Symposium and Workshops on Algorithm Theory

Minimizing Cuts via the Ball-Growing Method, Carnegie Mellon University May 2020
Operation Research Seminar

On Cyclically 5-Connected Graphs, University of Waterloo August 2016
Graph Theory Seminar

Dijoins and Dicuts, University of Waterloo August 2014
Undergraduate Research Seminar

TEACHING EXPERIENCE

Carnegie Mellon University
Teaching Assistant

- Business Networks 45-951 (Fall 19), Calculus in 3-D 21-259 (Fall 19, Spring 19), Differential and Integral Calculus 21-120 (Fall 18), Differential Calculus 21-111 (Spring 18), Calculus II 21-112 (Fall 17), Concepts of Math 21-127 (Spring 17), Matrix Algebra with Applications 21-240 (Fall 16)

University of Waterloo
Teaching Assistant

- Intro to Combinatorics Math 239 (Fall 15, Winter 16), Algebra Math 135 (Summer 15), Calculus 1 Math 137 (Summer 16, Winter 15)

AWARDS

Alexander Graham Bell Canada Graduate Scholarship – Doctoral Program 2016-2019

Natural Science and Engineering Research Council of Canada Undergraduate Research Assistantship May-August 2014
University of Waterloo

Piquard Family Scholarship February 2014

Natural Science and Engineering Research Council of Canada Undergraduate Research Assistantship May-August 2013
McGill University