

# CV

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Abstract This Monograph Presents Id

## Work

- Assistant Professor, , University Of Toronto, -
- Faculty Affiliate, , Vector Institute, -2019
- Research Scientist, , Visitor Institute, -

## Publications

- Faster Algorithms Via Approximation Theory, 2013
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- Nearly Optimal Np-Hardness Of Vertex Cover On K-Uniform K-Partite Hypergraphs, 2011
- Approximate Gaussian Elimination For Laplacians - Fast, Sparse, And Simple, 2016
- Optimal Inapproximability For Scheduling Problems Via Structural Hardness For Hypergraph Vertex Cover, 2013
- Faster  $\ell_p$ -Norm Minimizing Flows, Via Smoothed  $\ell_q$ -Norm Problems, 2020
- The Mixing Time Of The Dikin Walk In A Polytope—A Simple Proof, 2016
- Inapproximability Of Minimum Vertex Cover On  $K$ -Uniform  $K$ -Partite Hypergraphs, 2015
- Simultaneous Approximation Of Constraint Satisfaction Problems, 2015
- Approximating The Exponential, The Lanczos Method And An  $\tilde{O}(M)$ -Time Spectral Algorithm For Balanced Separator, 2012
- Short Cycles Via Low-Diameter Decompositions, 2019
- Provable Ica With Unknown Gaussian Noise, And Implications For Gaussian Mixtures And Autoencoders, 2015
- Iterative Refinement For  $\ell_{\leq p}$ -Norm Regression, 2019
- A Framework For Analyzing Resparsification Algorithms, 2017
- Testing Permanent Oracles – Revisited, 2012

- Finding Overlapping Communities In Social Networks, 2012
- Design And Implementation Of A Green Traffic Light Controller On Fpga Using Vhdl, 2018
- Flows In Almost Linear Time Via Adaptive Preconditioning, 2019
- Near-Optimal Approximation Algorithm For Simultaneous  $Mx - C^T u$ , 2018
- Sampling Random Spanning Trees Faster Than Matrix Multiplication, 2017