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Global Winner (2nd) of Microsoft "Imagine Cup" Embedded Dev. Competition

Ye Qisun Award (Highest Honor of the Math & Physics Program), Tsinghua Uni-

EDUCATION

LIN YANG

	Ph.D. in Computer Science (expected)
	Ph.D. in Physics (expected)
2015	Johns Hopkins University
	MS.E. in Computer Science
2011	Tsinghua University
	B.S. in Math & Physics (with high honors)
AWARDS	
2015	The Dean Robert H. Roy Fellowship, Johns Hopkins University

Outstanding College Graduate Award, Tsinghua University

PREPRINTS AND PUBLICATIONS

Preprints

2011

2011

2011

- The Physical Systems Behind Optimization Algorithms Lin Yang, Raman Arora, Vladimir Braverman, and Tuo Zhao
- Clustering High Dimensional Dynamic Data Streams

versity

Vladimir Braverman, Gereon Frahling, Christian Sohler, Harry Lang, and Lin Yang (Alphabetical order)

Submitted to STOC (2017)

Sketches for Matrix Norms: Faster, Smaller and More General

Vladimir Braverman, Stephen R Chestnut, Robert Krauthgamer, and Lin Yang (Alphabetical order) Submitted to STOC (2017)

• Streaming Symmetric Norms via Measure Concentration

Jarosław Błasiok, Vladimir Braverman, Stephen R Chestnut, Robert Krauthgamer, and Lin Yang (Alphabetical order)

Submitted to STOC (2017)

Conference Publications

• Streaming Space Complexity of Nearly All Functions of One Variable on Frequency Vectors Vladimir Braverman, and Stephen R. Chestnut and David P. Woodruff and Lin Yang (Alphabetical

Symposium on Principles of Database Systems (PODS), 2016

• New Bounds for The CLIQUE-GAP Problem Using Graph Decomposition Theory

Vladimir Braverman, Zaoxing Liu, Tejasvam Singh, NV Vinodchandran, and **Lin Yang** (Alphabetical order)

International Symposium on Mathematical Foundations of Computer Science (MFCS), 2015

• Streaming Algorithms for Halo Finders

Zaoxing Liu, Nikita Ivkin, **Lin Yang**, Mark Neyrinck, Gerard Lemson, Alexander Szalay, Vladimir Braverman, Tamas Budavari, Randal Burns, and Xin Wang *International Conference on e-Science (e-Science)*, 2015

• New Time-Space Upperbounds for Directed Reachability in High-genus and H-minor-free Graphs

Diptarka Chakraborty, A. Pavan, Raghunath Tewari, N. V. Vinodchandran, and **Lin Yang** (Alphabetical order)

International Conference on Foundation of Software Technology and Theoretical Computer Science (FSTTCS), 2014

• A GPU-Based Visualization Method for Computing Dark Matter Annihilation Signal

Lin Yang, Alexander Szalay

Astronomical Data Analysis Software and Systems (ADASS) XXII, 2013

Journal Publications

• Warmth elevating the depths: shallower voids with warm dark matter Lin Yang, Mark C Neyrinck, Miguel A Aragón-Calvo, Bridget Falck, Joseph Silk Monthly Notices of the Royal Astronomical Society (MNRAS), 451 (4):3606-3614, 2015

• The Hierarchical Nature of The Spin Alignment of Dark Matter Haloes in Filaments

M. A. Aragón-Calvo and Lin Yang

Monthly Notices of the Royal Astronomical Society (MNRAS), 440 (1): L46-L50, 2014

• Dark Matter Contribution to Galactic Diffuse Gamma Ray Emission

Lin F Yang, Joseph Silk, Alexander S Szalay, Rosemary FG Wyse, Brandon Bozek, Piero Madau *Physical Review D*, 89 (6): 063530, 2014

• Ringing the Initial Universe: the Response of Overdensity and Transformed-density Power Spectra to Initial Spikes

Mark C Neyrinck, Lin Yang

Monthly Notices of the Royal Astronomical Society (MNRAS), 433 (2): 1628-1633, 2013

• The Optical Counterpart of NGC 1313 X-1

Lin Yang, Hua Feng, and Philip Kaaret

The Astrophysical Journal (ApJ), 733 (2), 118, 2011

Reviewers for

- IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS), 2016
- IEEE Symposium on Foundations of Computer Science (FOCS), 2016
- Quantum Information & Computation
- 19th. International Workshop on Randomization and Computation (RANDOM'2015)
- ACM Transactions on Algorithms
- Monthly Notices of the Royal Astronomical Society (MNRAS)

REFERENCES

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