JUNTENG JIA

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EDUCATION

EDUCATION	
Ph.D. in Computer Science Cornell University	Field: Graph Mining May 2021
• M.S. in Computer Science Cornell University	GPA: 4.10/4.30 May 2020
• M.S. in Chemistry Cornell University	GPA: 4.00/4.30 August 2017
• B.S. in Chemistry Nanjing University	GPA: 3.78/4.00 September 2015
Professional Experience	
Research Scientist Facebook	Applied Machine Learning June 2021 –
• Software Engineer Intern Facebook	Messenger Business Ranking $Summer\ 2020$
Software Engineer Intern Google	Data Infrastructure & Analysis $Summer\ 2019$

Q Awards & Honors

AWARDS & HONORS	
• Global Top 100 Chinese Rising Stars in Artificial Intelligence, Baidu	2021
• KDD Travel Award, Association for Computing Machinery	2019
• Exchange Student Scholarship, University of Sydney	2014
• China National Scholarship (Top 0.1%)	2013
• Renmin Scholarship, Nanjing University	2012

₽ Preprints

1. Graph Belief Propagation Networks.

Junteng Jia, Cenk Baykal, Vamsi K. Potluru, and Austin R. Benson. arXiv:2106.03033, 2021

2. A Unifying Generative Model for Graph Learning Algorithms.

Junteng Jia, and Austin R. Benson. arXiv:2101.07730, 2021

PUBLICATIONS

(* means co-first authors)

1. Residual Correlation in Graph Neural Network Regression.

Junteng Jia, and Austin R. Benson.

Proceedings of the International Conference on Knowledge Discovery & Data Mining (KDD), 2020.

- 2. Enabling Large-Scale Condensed-Phase Hybrid Density Functional Theory Based Ab Initio Molecular Dynamics. Hsin-Yu Ko, Junteng Jia, Biswajit Santra, Xifan Wu, Roberto Car, and Robert A. DiStasio Jr. Journal of Chemical Theory and Computation, 2020
- 3. Neural Jump Stochastic Differential Equations.

Junteng Jia, and Austin R. Benson.

Advances in Neural Information Processing Systems (NeurIPS), 2019.

4. Graph-based Semi-Supervised & Active Learning for Edge Flows.

Junteng Jia, Michael T. Schaub, Santiago Segarra, and Austin R. Benson.

Proceedings of the International Conference on Knowledge Discovery & Data Mining (KDD), 2019.

5. Random Spatial Network Models for Core-Periphery Structure.

Junteng Jia, and Austin R. Benson.

Proceedings of the International Conference on Web Search and Data Mining (WSDM), 2019.

6. On the Geometric Dependence of the Molecular Dipole Polarizability in Water.

Ka Un Lao, Junteng Jia, Rahul Maitra, and Robert A. DiStasio Jr.

The Journal of Chemical Physics, 2019

7. Unraveling Substituent Effects on the Glass Transition Temperatures of Biorenewable Polyesters.

Xiaopeng Yu*, **Junteng Jia***, Shu Xu, Ka Un Lao, Maria J. Sanford, Ramesh K. Ramakrishnan, Sergei I. Nazarenko, Thomas R. Hoye, Geoffrey W. Coates, and Robert A. DiStasio Jr.

Natural Communication, 2018

8. Exploiting Molecular Weight Distribution Shape to Tune Domain Spacing in Block Copolymer Thin Films. Dillon T. Gentekos*, Junteng Jia*, Erika S. Tirado, Katherine P. Barteau, Detlef-M. Smilgies, Robert A. DiStasio Jr., and Brett P. Fors.

Journal of the American Chemical Society, 2018

9. Advanced Capabilities for Materials Modelling with Quantum ESPRESSO.

Paolo Giannozzi, Oliviero Andreussi, Thomas Brumme, Oana Bunau, Marco Buongiorno Nardelli, Matteo Calandra, Roberto Car, Carlo Cavazzoni, Davide Ceresoli, Matteo Cococcioni, Nicola Colonna, Ivan Carnimeo, Andrea Dal Corso, Stefano de Gironcoli, Pietro Delugas, Robert A. DiStasio Jr., Andrea Ferretti, Andrea Floris, Guido Fratesi, Giorgia Fugallo, Ralph Gebauer, Uwe Gerstmann, Feliciano Giustino, Tommaso Gorni, Junteng Jia, Mitsuaki Kawamura, Hsin-Yu Ko, Anton Kokalj, Emine Küçükbenli, Michele Lazzeri, Margherita Marsili, Nicola Marzari, Francesco Mauri, Ngoc Linh Nguyen, Huy-Viet Nguyen, Alberto Otero-de-la-Roza, Lorenzo Paulatto, Samuel Poncé, Dario Rocca, Riccardo Sabatini, Biswajit Santra, Martin Schlipf, Ari Paavo Seitsonen, Alexander Smogunov, Iurii Timrov, Timo Thonhauser, Paolo Umari, Nathalie Vast, Xifan Wu, and Stefano Baroni Journal of Physics: Condensed Matter, 2017

10. Different Ways of Hydrogen Bonding in Water.

Yunwen Tao, Wenli Zou, Junteng Jia, Wei Li, and Dieter Cremer.

Journal of Chemical Theory and Computation, 2017

11. Normal Auger Processes with Ultrashort X-ray Pulses in Neon.

Raymond Sullivan, Junteng Jia, Álvaro Vázquez-Mayagoitia, and Antonio Picón.

Physical Review A, 2016

12. Vibrational Spectra of Molecular Crystals with the Generalized Energy-Based Fragmentation Approach.

Tao Fang, Junteng Jia, and Shuhua Li.

The Journal of Physical Chemistry A, 2016

TALKS

1. Label Prediction on Graphs with Topological Correlations and Constraints.

JP Morgan AI Research

September 17, 2020 Virtual

2. Residual Correlation in Graph Neural Network Regression.

KDD, Oral Presentation

August 27, 2020 Virtual

3. Graph-based Semi-Supervised & Active Learning for Edge Flows.

KDD, Oral Presentation

August 7, 2019 Anchorage, AK

4. Semi-Supervised Learning for Edge Flows.

Cornell University

February 11, 2019 Ithaca, NY

5. Enabling Hybrid Density Functional Theory Based Ab Initio Molecular Dynamics.

March 13, 2017 New Orleans, LA

APS March Meeting

ACADEMIC SERVICES

• Reviewer: NeurIPS (2020, 2021), Applied Network Science, Transactions on Information Systems, and Patterns

TECH SKILLS

• Languages: Python, Julia, Java, C/C++, MATLAB

Frameworks: PyTorch, TensorFlow, Flux, MPI, OpenMP