

BANG AN

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<https://bangann.github.io/>

EDUCATION

University of Maryland, College Park	2020 - Present
Ph.D. student in Computer Science	
Advisor: Prof. Furong Huang	
Tsinghua University, China	2013 - 2016
M.S. in Automation, School of Information Science and Technology	
Northeastern University, China	2009 - 2013
B.S. in Automation, School of Information Science and Engineering	

PUBLICATIONS

* denotes equal contribution

1. **Bang An**, Zora Che, Mucong Ding, Furong Huang
Transferring Fairness under Distribution Shifts via Fair Consistency Regularization
In the Thirty-fifth Annual Conference on Neural Information Processing Systems (NeurIPS) 2022.
2. Mucong Ding, Tahseen Rabbani, **Bang An**, Evan Z Wang, Furong Huang.
Sketch-GNN: Scalable Graph Neural Networks with Sublinear Training Complexity
In the Thirty-fifth Annual Conference on Neural Information Processing Systems (NeurIPS) 2022.
3. Sicheng Zhu*, **Bang An***, Furong Huang
Understanding the Generalization Benefit of Model Invariance from a Data Perspective
In the Thirty-fifth Annual Conference on Neural Information Processing Systems (NeurIPS) 2021.
4. Xueting Han, Zhenhuan Huang, **Bang An**, Jing Bai
Adaptive Transfer Learning on Graph Neural Networks
In ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2021.
5. **Bang An**, Jie Lyu, Zhenyi Wang, Chunyuan Li, C. Hu, F. Tan, Ruiyi Zhang, Y. Hu, Changyou Chen
Repulsive Attention: Rethinking Multi-head Attention as Bayesian Inference
In Empirical Methods in Natural Language Processing (EMNLP), 2020.
6. Honglei Guo, **Bang An**, Zhili Guo, Zhong Su
Deep Semantic Compliance Advisor for Unstructured Document Compliance Checking
In International Joint Conference on Artificial Intelligence (IJCAI), 2020.
7. Zhenyi Wang, Xiaoyang Wang, **Bang An**, Dong Yu, Changyou Chen
Towards Faithful Neural Table-to-Text Generation with Content-Matching Constraints
In Association for Computational Linguistics (ACL), 2020.
8. Xiang Zou, Peng Cheng, **Bang An**, Jingyan Song
Sectorization and Configuration Transition in Aerospace Design
In Mathematical Problems in Engineering, 2016.
9. **Bang An**, Peng Cheng, Xiang Zou
A Smart Sectorization Approach Based on Spectral Clustering and NSGA-II
In IEEE International Smart Cities Conference, 2015.

10. **Bang An, Peng Cheng**

An Algorithm for a Class of Uncapacitated Facility Location Problem Based on Branch-and-Cut
In Operations Research Transactions, 2015. (Journal in Chinese)

EMPLOYMENT

Google Research <i>Research Intern, Brain Team</i> Advisor: Zhe Zhao	Jun 2022 - Aug 2022 <i>Mountain View, CA</i>
Microsoft Research Asia <i>Research Intern, System Intelligence Group</i> Advisor: Xueting Han	Sep 2020 - Dec 2020 <i>Beijing, China</i>
State University of New York at Buffalo <i>Visiting scholar, Machine Learning group</i> Advisor: Changyou Chen	Jul 2019 - May 2020 <i>Buffalo, NY</i>
IBM Research - China <i>Research Staff member, NLP Team</i> Manager: Zhong Su	Aug 2018 - Jun 2019 <i>Beijing, China</i>
China Transport Information Center Co., Ltd <i>Machine learning engineer</i>	Jul 2016 - Jul 2018 <i>Beijing, China</i>
Samsung Electronics China Research Institute <i>Research intern</i>	Jun 2015 - Sep 2015 <i>Beijing, China</i>
Institute of Software Chinese Academy of Sciences <i>Research intern</i>	Jun 2014 - Sep 2014 <i>Beijing, China</i>

UMD COURSES

STAT600: Probability Theory
CMSC828W: Foundations of Deep Learning
CMSC828U: Algorithms in Machine Learning: Guarantees and Analyses
CMSC764: Advanced Numerical Optimization
CMSC828M: Applied Mechanism Design for Social Good
CMSC754: Computational Geometry
CMSC828I: Visual Learning and Recognition
CMSC828L: Deep Learning

HONORS & AWARDS

NeurIPS 2022 Travel Award, New Orleans, 2022.
Comprehensive Excellent Scholarship of Tsinghua University, China, 2014 and 2015
College Graduate Excellence Award of Liaoning Province (top 1%), China, 2013
First Prize of National Mathematics Competition in Liaoning Province, China, 2013
Third Prize of National Computer Game Tournament (Phantom Go Track), China, 2012
National Undergraduate Scholarship (top 1%), China, 2010, 2011, 2012
First Prize Scholarship of Northeastern University (top 2%), China, 2010, 2011, 2012

SERVICES

Reviewer: ICML 2022, NeurIPS 2022.

Program Committee:

3rd Workshop on Continual and Multimodal Learning for Internet of Things, IJCAI, 2021.

1st Workshop on Foundation Models for Vision and Language, ICDM, 2022.

Trustworthy and Socially Responsible Machine Learning (TSRML), NeurIPS Workshop, 2022.