Bang An

PhD student | Computer Science | University of Maryland



https://bangann.github.io/bangan@umd.edu

3108 Brendan Iribe Center, 8125 Paint Branch Drive, College Park, MD 20742

EDUCATION

University of Maryland, College Park, MD, US

Sep 2020 - Present

Ph.D. student, Department of Computer Science Advisor: Prof. Furong Huang

Tsinghua University, Beijing, China

Sep 2013 - Jul 2016

Master of Science, Department of Automation, School of Information Science and Technology

Northeastern University, Shenyang, China

Sep 2009 - Jul 2013

Bachelor of Engineering, Department of Automation, Information Science and Engineering

Publications

Peer-Reviewed Conference Papers

- Sicheng Zhu*, **Bang An***, Furong Huang. "Understanding the Generalization Benefit of Model Invariance from a Data Perspective". In *Conference on Neural Information Processing Systems (NeurIPS)*, 2021. (* equally contributed)
- 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.
- **Bang An**, Jie Lyu, Zhenyi Wang, Chunyuan Li, Changwei Hu, Fei Tan, Ruiyi Zhang, Yifan Hu and Changyou Chen. "Repulsive Attention: Rethinking Multi-head Attention as Bayesian Inference". In *Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
- 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.
- 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.

Bang An, Peng Cheng, Xiang Zou. "A Smart Sectorization Approach Based on Spectral Clustering and NSGA-II". In *IEEE International Smart Cities Conference*, 2015.

Peer-Reviewed Journal Articles

Xiang Zou, Peng Cheng, **Bang An**, Jingyan Song. "Sectorization and Configuration Transition in Airspace Design". In *Mathematical Problems in Engineering*, 2016.

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)

Workshop Papers

Bang An, Xuannan Dong, Changyou Chen. "Repulsive Bayesian Sampling for Diversified Attention Modeling". In *NeurIPS Workshop on Bayesian Deep Learning*, 2019.

Sicheng Zhu, **Bang An**, Shiyu Niu. "Guess First to Enable Better Compression and Adversarial Robustness". In *NeurIPS Workshop on Information Theory and Machine Learning*, 2019.

EMPLOYMENT

Microsoft Research Asia, Beijing, China	Sep 2020 - Dec 2020
Research intern in System Intelligence Team	
State University of New York at Buffalo, Buffalo, NY, US	Jul 2019 - May 2020
Visiting scholar in Machine Learning group,	
Host: Prof. Changyou Chen	
IBM Research - China, Beijing, China	Aug 2018 - Jun 2019
Research staff member in NLP Team	
Mentor: Dr. Zhong Su	
China Transport Information Center Co., Ltd., Beijing, China	Jul 2016 - Jul 2018
Machine learning engineer	
Samsung Electronics China Research Institute., Beijing, China	Jun 2015 - Sep 2015
Research intern	•
Institute of Software Chinese Academy of Sciences., Beijing, China	Jun 2014 - Sep 2014
Research intern	•

UMD Courses

CMSC828W: Foundations of Deep Learning	A
CMSC828U: Algorithms in Machine Learning: Guarantees and Analyses	A
CMSC764: Advanced Numerical Optimization	A
CMSC828M: Applied Mechanism Design for Social Good.	A

Honors & Awards

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