

Yuan Yang

GENERAL INFORMATION	Tel: 412-623-9464 Homepage: gblackout.github.io	Email: yyang754@gatech.edu
RESEARCH INTEREST	I'm interested in interpretable machine learning models and learning methods that can reduce human-supervision. Typical topics and techniques involved in my research are: learning-by-asking, efficient inference on knowledge graph, logic programming and commonsense reasoning.	
EDUCATION	Georgia Institute of Technology Ph.D. Machine Learning, College of Computing	Atlanta, GA 2018-present
	Carnegie Mellon University M.S. Computational Data Science, School of Computer Science	Pittsburgh, PA 2016-2017
	Beihang University B.Eng. Software Engineering, School of Software Engineering	Beijing, Beijing 2012-2016
RESEARCH EXPERIENCE	Georgia Institute of Technology, ML Group Research Assistant, advised by Le Song <ul style="list-style-type: none">Research on symbolic reasoning with deep learning on structured data.	Atlanta, GA 2019-2020
	Petuum, Medical Group Research Scientist <ul style="list-style-type: none">Proposed a text classification CNN model for discharge medication prediction.Improved model interpretability with factor analysis theory	Pittsburgh, PA 2017-2018
	Carnegie Mellon University Team Leader, TREC 2017 LiveQA competition, advised by Eric Nyberg <ul style="list-style-type: none">Developed a QA system for real-time consumer health QA.A ML model that searches in tree-based knowledge graph with federated search engine.	Pittsburgh, PA 2017-2017
	SenseTime, Speech Group Research & Development Intern <ul style="list-style-type: none">Implemented/fine-tuned Baidu Deep Speech 2 model.	Beijing, Beijing 2016-2016
	Rochester University, The Computation and Language Lab Research Intern, advised by Steven Piantadosi <ul style="list-style-type: none">Proposed a nonparametric Bayesian model for simulating human language learning.Model learns to represent formal languages with a functional programming system.	Rochester, NY 2015-2016
	Tsinghua University, Statistical AI & Learning Group Research Intern, advised by Jun Zhu <ul style="list-style-type: none">Proposed a distributed sampling framework for large-scale topic model inference.Framework outperforms state-of-the-art samplers: LightLDA and DSGLD.	Beijing, Beijing 2014-2016
PUBLICATIONS	<ol style="list-style-type: none">Y. Yang, and H. Zhang. Learning by Asking Commonsense Questions, under review <i>37th International Conference on Machine Learning (ICML 2020)</i>.Y. Yang, and L. Song. Learn to Explain Efficiently via Neural Logic Inductive Learning, <i>8th International Conference on Learning Representations (ICLR 2020)</i>.Y. Zhang*, X. Chen*, Y. Yang*, A. Ramamurthy, B. Li, Y. Qi, and L. Song. Efficient Probabilistic Logic Reasoning with Graph Neural Networks, <i>8th International Conference on Learning Representations (ICLR 2020)</i>.	

- 4 X. Si*, Y. Yang*, H. Dai, M. Naik, and L. Song. Learning a Meta-Solver for Syntax-Guided Program Synthesis, *7th International Conference on Learning Representations* (ICLR 2019).
- 5 Y. Yang, P. Xie, X. Gao, C. Cheng, C. Li, H. Zhang and E. Xing. Predicting Discharge Medications at Admission Time Based on Deep Learning, *arXiv preprint arXiv:1711.01386*, 2017.
- 6 Y. Yang, J. Yu, Y. Hu, X. Xu and E. Nyberg. A Consumer Health Question Answering System, *Text Retrieval Conference 2017 LiveQA Medical Track* (TREC 2017).
- 7 Y. Yang and S. T. Piantadosi. One Model For the Learning of Language, *arXiv preprint arXiv:1711.06301*, 2016.
- 8 Y. Yang, J. Chen and J. Zhu. Distributing the Stochastic Gradient Sampler for Large-Scale LDA, *22nd Conference on Knowledge Discovery and Data Mining* (KDD 2016).

AWARDS

- 1st Prize in Undergrad. Mathematical Contest in Modeling, CSIAM. 2014
- 2nd Prize in Imagine Cup 2014 Chinese Region, Microsoft. 2014
- National Scholarship, Beihang University. 2014
- 2nd Prize in Beihang Fengru Cup, Beihang University. 2014
- Excellent Student Prize, Beihang University. 2014

TEACHING

- Teaching Assistant, Spring 2019, CSE 6740, Computational Data Analysis. 2019
- Seminar Lecturer, VR and Matrix application Lab, Beihang University. 2013-2015