

Lantao Yu

CONTACT INFORMATION

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EDUCATION

Carnegie Mellon University, Pittsburgh, USA **Aug. 2017 - Present**

- Research Intern, Institute for Software Research, School of Computer Science, Advisor: Prof. FEI FANG

Shanghai Jiao Tong University, Shanghai, P.R. China **Sep. 2014 - Present**

- Senior, Department of Computer Science
- Research Assistant, Apex Data and Knowledge Management Lab, Department of Computer Science, Advisor: Prof. YONG YU and Prof. WEINAN ZHANG.
- GPA: 91.19/100

RESEARCH INTERESTS

The general areas of machine learning, including deep learning, reinforcement learning, multi-agent systems and their applications in sequential decision making, natural language processing and information retrieval.

PUBLICATION

- **Lantao Yu**, Weinan Zhang, Jun Wang, Yong Yu. SeqGAN: Sequence Generative Adversarial Nets with Policy Gradient. In *Proceedings of the 31st AAAI Conference on Artificial Intelligence*. **AAAI 2017**.
- Jun Wang, **Lantao Yu**, Weinan Zhang, Yu Gong, Yinghui Xu, Benyou Wang, Peng Zhang and Dell Zhang. IRGAN: A Minimax Game for Unifying Generative and Discriminative Information Retrieval Models. In *Proceedings of the 40th International ACM SIGIR Conference on Research and Development in Information Retrieval*. **SIGIR 2017. Best Paper Award Honorable Mention**
- **Lantao Yu***, Xuejian Wang*(equal contribution), Kan Ren, Guanyu Tao, Weinan Zhang, Yong Yu, Jun Wang. A Dynamic Attention Deep Model for Article Recommendation by Learning Human Editors' Demonstration. In *Proceedings of the 23rd SIGKDD Conference on Knowledge Discovery and Data Mining*. **KDD 2017**.
- **Lantao Yu***, Yaodong Yang*, Yiwei Bai*(equal contribution), Jun Wang, Weinan Zhang, Ying Wen, Yong Yu. An Empirical Study of AI Population Dynamics with Million-agent Reinforcement Learning. *Submitted to AAAI 2018*.

HONORS AND AWARDS

- **Best Paper Award Honorable Mention of SIGIR 2017**. Paper: IRGAN: A Minimax Game for Unifying Generative and Discriminative Information Retrieval Models.
- **Microsoft Azure Research Award**, Carnegie Mellon University. 2017.
- **Scholarship of Excellent Undergraduates** (Top 2 students in school of Electronic Information and Electrical Engineering), Shanghai Jiao Tong University. 2016-2017
- **National Scholarship** (Top 3 students in Computer Science Department), Shanghai Jiao Tong University. 2015-2016.

- **Zhiyuan Honor Scholarship** (Top 5%, Twice), Shanghai Jiao Tong University. 2015 & 2016.
- **Yuan-Ze Scholarship** (Top 2% in Computer Science Department), Zhiyuan College, Shanghai Jiao Tong University. 2014-2015.

RESEARCH EXPERIENCES

ISR, School of Computer Science, Carnegie Mellon University

- Deep Reinforcement Learning for Spatio-Temporal Security Game with Online Information. (Working paper) Aug. 2017 - Present
- Machine Learning and Game Theory for Wildlife Security. Collaborating with WWF China. (Working paper) Aug. 2017 - Present

Dept of Computer Science, Shanghai Jiao Tong University

- Sequence Generative Adversarial Nets with Policy Gradient. Accepted as a full paper at *AAAI 2017*. (60+ citations) Jun. 2016 - Sep. 2016
- IRGAN: A Minimax Game for Unifying Generative and Discriminative Information Retrieval Models. Accepted as a full paper at *SIGIR 2017*. Best paper award honorable mention. Sep. 2016 - Jan. 2017
- Dynamic Attention Deep Model for Article Recommendation by Learning Human Editors Demonstration. Accepted as a full paper at *KDD 2017*. Dec. 2016 - Feb. 2017
- An Empirical Study of AI Population Dynamics with Million-agent Reinforcement Learning. Under review at *AAAI 2018*. May. 2017 - Aug. 2017
- Reviewer of *PIC 2016* and *SIGIR 2017*
- Research on click fraud detection in computational advertisement. Collaborating with YOYI. 2015
- China Undergraduate Mathematical Contest in Modelling, First Prize in Shanghai Division. 2015
- Open Source Projects
 - Implementation of Sequence Generative Adversarial Nets with Policy Gradient. 700+ stars in Github: <https://github.com/LantaoYu/SeqGAN>
 - Implementation of IRGAN. 200+ starts in Github: <https://github.com/geek-ai/irgan>
 - A preliminary platform for million-agent reinforcement learning. Github: <https://github.com/geek-ai/1m-agents>
 - Multi-agent Reinforcement Learning paper collection Github: <https://github.com/LantaoYu/MARL-Papers>

COMPUTER SKILLS

- Languages: Python, C/C++, L^AT_EX, Verilog.
- Machine Learning Packages: TensorFlow, Keras, Theano, Spark-MLlib, SKLearn, SciPy, NumPy, xGBoost, MXNet, Multiprocessing.
- Operating Systems: Unix/Linux, Windows.