Lantao Yu

CONTACT INFORMATION

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EDUCATION

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

- Undergraduate (Junior), Department of Computer Science and Engineering
- Apex Data and Knowledge Management Lab, Department of Computer Science, Supervisor: Prof. YONG YU and Prof. WEINAN ZHANG.
- Excellent academic record
- 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 the Proceedings of the Thirty-First 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 the Proceedings of the 40th International ACM SIGIR Conference on Research and Development in Information Retrieval. **SIGIR 2017**.
- **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 the proceedings of the 23rd SIGKDD Conference on Knowledge Discovery and Data Mining. **KDD 2017**.

HONORS AND AWARDS

National Scholarship, Shanghai Jiao Tong University 2016

GPA 1st/150, CS Department, Shanghai Jiao Tong University 2015-2016

Zhiyuan Honor Scholarship, Shanghai Jiao Tong University 2015,2016

Yuan-Ze Scholarship, Shanghai Jiao Tong University 2015

Second Prize in China Undergraduate Mathematical Contest in Modelling (First Prize in Shanghai) 2015

RESEARCH EXPERIENCES

- **Sequence generative adversarial nets with policy gradient**, Jun. 2016 - Sep. 2016
  - Applying adversarial training to generating structured sequences of discrete tokens
  - Bypass the differentiation problem by directly performing policy gradient update
  - Design an experiment framework to explicitly test the efficacy of the language model
  - Lead author of the research paper, accepted in **AAAI 2017**
- **IRGAN: A Minimax Game for Unifying Generative and Discriminative Information Retrieval Models**, Sep. 2016 - Jan. 2017

  - Propose a framework to unify the two schools of thinking in information retrieval modelling: the generative retrieval and discriminative retrieval from a minimax game theory perspective

  - Leader of the experimental section, second author of the research paper, accepted in **SIGIR 2017** (Review score: 3 strong accepts)
- **Dynamic Attention Deep Model for Article Recommendation by Learning Human Editors Demonstration**, Dec. 2016 - Feb. 2017

  - Propose a meta-attention model across multiple deep neural nets to automatically catch the editors' underlying selection criteria and adaptively capture the change of such criteria via a hybrid attention model.

- Co-first author of the research paper, accepted in **KDD 2017**

- Reviewer of PIC 2016 and SIGIR 2017
- Open source project: Implementation of Sequence Generative Adversarial Nets with Policy Gradient, with more than 450 stars in github `https://github.com/LantaoYu/SeqGAN`.
- Multi-agent Reinforcement Learning paper collection: `https://github.com/LantaoYu/MARL-Papers`
- Research on click fraud detection in computational advertisement, cooperating with YOYI 2015

Computer Skills

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