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.
- Excellent academic record
- Research interests: machine learning (especially in deep learning, reinforcement learning, adversarial training) 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**.

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
  - Accepted as a full paper in SIGIR 2017 (Review score: 3 strong accept)
- Dynamic Attention Deep Model for Article Recommendation by Learning Human Editors Demonstration (Co-first authorship, Under review at 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.