Yuping LUO

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EDUCATION

Princeton University   2017 Sep — Present
Computer Science Department   *Princeton*

· First year Ph.D. Candidate.

Tsinghua University   2013 Sep — 2017 Jul
Institute for Interdisciplinary Information Sciences   *Beijing*

· Selected to *Tsinghua Xuetang Special Pilot CS Class*, directed by Prof. *Andrew Yao*.
· Admission given by *Gold Medal* in the National Olympiad of Informatics 2012.
· Overall GPA: 90/100

RESEARCH EXPERIENCE

Experiments on Selfplay   2017 Jul — 2017 Sep
Mentors: Rocky Duan, Ilya Sutskever   *OpenAI*

· Experimented on different ways to do self-play.
· Researched the possibility of agent without search.

Onlinea Learning to Rank   2017 Mar — 2017 Jul
Instructor: Periklis Papakonstantinou   *Tsinghua University*

· Studied a special case in which we're able to compare two items actively.
· Generalized an existent algorithm for high dimension to lower dimension.
· Proposed a new algorithm for online learning to rank.
· Gave a lower bound on the number of samples to recover the full ordering.

Online Speech Recognition with Reinforcement Learning   2015 Jul — 2015 Dec
Mentors: Ilya Sutskever, Navdeep Jaitly   *Google Brain*

· Combined Seq2Seq model and CTC model by introducing hard attention on input sequence.
· Trained the model by Reinforcement Learning.
· Comparable results to classical CTC model.
· Paper accepted by **ICASSP 2017**.

Algorithms and Models on Big Data   2014 Mar — 2016 Sep
Instructor: Periklis Papakonstantinou   *Tsinghua University*

· Proved a lower bound of number of passes for a family of linear functions in the multi-stream model and designed a near-optimal algorithm.
· Found expander graphs are different from randomness extractor in the multi-stream model.
· Gave a conditional lower bound of number of passes when streams have bounded size.

PUBLICATIONS

[1] Luo, Y., Chiu, C.-C., Jaitly, N., and Sutskever, I. Learning online alignments with continuous rewards policy gradient. In *Acoustics, Speech and Signal Processing (ICASSP), 2017 IEEE International Conference on* (2017), IEEE, pp. 2801–2805

AWARDS

· **Yao Award (recognition prize), Tsinghua University**	2016 Sep
· **Professional Excellence Scholarship, Tsinghua University 2015 Sep**	2015 Sep
· **ACM International Collegiate Programming Contest**	
· **Gold** (#2/152), Mudanjiang	2014 Oct
· **Gold** (#3/156), Shanghai	2014 Dec
· **Gold** (#5/182), Changsha	2013 Nov
· **Freshman Scholarship, Tsinghua University**	2013 Sep
· **Fellowship of Xuetang Talents Program, Tsinghua University**	2013 Sep
· **Google Code Jam (#31/1825) (Round 2)**	2013 Jun
· **National Olympiad of Informatics (#10/292)**	2012 Aug

SKILLS

Programming

· Languages: C/C++, Python, Javascript, Java
· Libraries & Softwares: numpy, TensorFlow, pytorch, LaTeX, Vue.js

Language

· Chinese (native)
· English (fluent)