

Xiaoyuan Liu

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Undergraduate in Computer Science

Home Page: <https://littleround.cn/about/>

Education	Shanghai Jiao Tong University , China Honors Bachelor of Science (B.Sc. Hons) in Computer Science Member of ACM Class , which is an elite CS program for top 5% talented students.	Sept 2016 ~ Present June 2020(expected)
Research	Instruction level parallelism for CPU and compilers.	
Interests	Reinforcement learning methods for dialogue policy learning.	
Research	SJTU SpeechLab – Dialogue group	July 2018 ~ Present
Experience	Shanghai Jiao Tong University Undergraduate Researcher advised by Prof. Kai Yu .	
Teaching	CS151 C++ Programming (A)	Teaching Assistant
Experience	https://acm.sjtu.edu.cn/wiki/Programming_2017	Fall 2017
	CS147 Data Structures	Teaching Assistant
	https://acm.sjtu.edu.cn/wiki/Data_Structures_2018	Spring 2018
	MS106 Principle and Practice of Computer Algorithms	Student Instructor
	https://acm.sjtu.edu.cn/wiki/PPCA_2018	Summer 2018
Honors and Awards	The 32th China's National Olympiad in Informatics (NOI) Silver Medal	2015
	Zhiyuan Honorary Scholarship	2016 & 2017 & 2018
	KoGuan Encouragement Scholarship	2017
	Student Council Vice President	2017
	Academic Excellence Scholarship	2017 & 2018
	Excellent League Cadre	2018
	Outstanding Student Cadre	2018
Highlighted Projects	QuPlayground https://camelop.github.io/QuPlayground/ A visual quantum circuit simulator to help testing quantum computations. Compiler 2018 https://github.com/camelop/MxStaro Compiles C-and-Java-like language (Mx*) to NASM. SpeechLab-Tone-Classification https://github.com/camelop/Speechlab-Tone-Classification Classify tones of single Chinese characters by their f0/energy sequences. Tensorwolf https://github.com/camelop/tensorwolf Coursework about building a simple machine learning system. RISC-V CPU https://github.com/camelop/lr_riscv_cpu A RISC-V CPU implemented in Verilog HDL with modified Tomasulo structure. Ticket Booking System https://github.com/camelop/UTJS A train ticket booking system with GUI. (team project)	