

YUTONG XIE

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🌐 <https://yutxie.github.io/aboutme/>

Education	Shanghai Jiao Tong University <i>Sep. 2016 - Jun. 2020 (Expected)</i> B.Sc. in Computer Science <ul style="list-style-type: none">• Member of ACM Class, an elite CS program for top 5% talented students.• Member of Zhiyuan Honors Program, a pilot program for training outstanding students in the basic sciences.• Major GPA 3.89/4.0.
Research Interests	My reserch interests lie in structural representation learning, e.g. graph representation learning , natural language understanding ; and I'm also attracted by general machine learning problems, e.g. multi-task learning , transfer learning , model capacity and generalization ability .
Research Experience	Foreseer Group , iSchool, University of Michigan <i>Jun. 2019 - Present</i> Research Intern advised by Prof. Qiaozhu Mei Apex Data & Knowledge Management Lab , SJTU <i>Jun. 2018 - Present</i> Research Intern advised by Prof. Yong Yu and Prof. Weinan Zhang
Research Projects	Code Comprehension Graph for Algorithm Detection from Source Code Y. Xie* , T. Long*, X. Chen, H. Zhao, W. Zhang, Q. Cao, Y. Yu <ul style="list-style-type: none">• Submitted to AAAI 2020.• Aimed at identifying algorithms in programs.• Proposed an effective program representation named code comprehension graph that consists of three subgraphs (data flow graph, control flow graph and abstract syntax tree) to capture both syntactic and semantic information. Visual Rhythm Prediction with Feature-Aligned Network Y. Xie , H. Wang, Y. Hao, Z. Xu <ul style="list-style-type: none">• Proceedings of the 16th IAPR International Conference on Machine Vision Applications Conference (MVA 2019).• Course project of Computer Vision, advised by Prof. Cewu Lu.• Proposed a data-driven visual rhythm prediction method, in which several visual features are considered (including frames and residuals, optical flow, scene change, body pose) and integrated by an end-to-end neural network to predict the visual onsets in a sequence labeling manner. QA4IE+: A Real-Time Document Level Information Extraction System L. Qiu, D. Ru, Y. Xiao, Y. Xie , Q. Long, W. Zhang, K. Tu, Y. Yu <ul style="list-style-type: none">• Submitted to AAAI 2019.• Aimed at implementing a system which can extract structured information from unstructured texts.• The framework has been designed as a 4-stage pipeline which first recognizes named entity in articles and selects related relations from a knowledge base, then extracts information with a question answering system, and finally generates reliable tuples by named entity linking.

Highlighted Projects	Simple Database <i>Apr. 2019 – Jun. 2019</i> <ul style="list-style-type: none"> Course project of Database Management, advised by Prof. Feifei Li. Supported common database management system operations and transaction management mechanisms.
	Compiler for Mx* [Github] <i>May. 2018 – Jun. 2018</i> <ul style="list-style-type: none"> Course project of Compiler Design and Implementation. Supported to compile a C-and-Java-like language Mx*. Optimized the compiler with register allocation, local value numbering, redundant instruction reducing, function inlining, etc.
	Simple Deep Learning Framework [GitHub] <i>Jul. 2017 – Aug. 2017</i> <ul style="list-style-type: none"> Course project of Programming Practice. Supported automatic differentiation, Adam optimizer, Convolutional Neural Networks, dropout and other features. Supported TensorFlow-like interface and parallel computation on GPU.
	Train Tickets Booking System [Github] <i>Apr. 2017 – May. 2017</i> <ul style="list-style-type: none"> Course project of Data Structure. Led a small team to build a train tickets booking system which supports operations on users, trains, schemes and tickets with high efficiency. Developed the back-end data structures in C++, and the front-end GUI with Qt.
Teaching Experience	CS420: Machine Learning , Teaching Assistant <i>Spring 2019</i>
	CS120: Introduction to Computer Science, Head Teaching Assistant <i>Fall 2018</i>
	CS151: C++ Programming (A) , Teaching Assistant <i>Fall 2017</i>
Honors & Awards	Scholarships
	Leo Ko-Guan Scholarship <i>2018, 2019</i>
	Huawei Scholarship <i>2017</i>
	Shanghai Jiao Tong University Scholarship <i>2017, 2018</i>
	Zhiyuan Honorary Scholarship <i>2016–2018</i>
	Competitions
	Second Prize, ACM-ICPC 2016, Nha Trang <i>Dec. 2016</i>
	Bronze Medal and Best Female Team, ACM-ICPC 2016, Beijing <i>Nov. 2016</i>
	Silver Medal and Best Female Team, CCPC 2016, Hefei <i>Oct. 2016</i>
	Bronze Medal, National Olympiad in Informatics (NOI) 2015 <i>May. 2015</i>
	Bronze Medal, Asia-Pacific Informatics Olympiad (APIO) 2015 <i>May. 2015</i>
	First Prize, National Olympiad in Informatics in Provinces (NOIP) 2014 <i>Dec. 2014</i>
Skills	Programming: <ul style="list-style-type: none"> Languages: C/C++, Python (PyTorch, TensorFlow, Numpy), Java, Matlab. Previous contestant of the International Collegiate Programming Contest (ACM-ICPC), familiar with advanced algorithms and data structures.
	English Proficiency: <ul style="list-style-type: none"> TOEFL: 101/120 (R28, L25, S22, W26). GRE: 322/340 (V153, Q169, W3.0)