

# Jingzhi Zhang

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EDUCATION	<b>Wuhan University</b> , Wuhan, Hubei Province, China B.S. in Computer Science and Technology (Outstanding Engineers) Sep 2017 – Jul 2021 (expected) <ul style="list-style-type: none"><li>Cumulative GPA: 3.83/4.00 (average: 3.62)</li><li>Weighted Average Score: 90.3/100</li><li>Rank: 3/29 (selected from 363 students in School of Computer Science, Wuhan University)</li></ul>
RESEARCH INTERESTS	the broad application of Machine Learning in the management of networked systems and services <ul style="list-style-type: none"><li><b>Networked Systems and Services:</b> congestion control; smart sensing; data center networks; wireless networks; distributed systems</li><li><b>Machine Learning:</b> reinforcement learning; deep learning</li></ul>
RESEARCH EXPERIENCE	<b>Calories Estimation via Smartphones</b> , Undergraduate Research Assistant School of Computer Science, Wuhan University <i>Co-advised by Prof. Yanjiao Chen and Prof. Qian Zhang</i> Sep 2019 – now <ul style="list-style-type: none"><li>Coordinated computer vision and near-infrared sensing to precisely estimate the calories users eat</li><li>Provided user-friendly Android apps solely based on smartphones with specialized phone cases</li></ul> <b>Rethinking Congestion Control with Deep Reinforcement Learning</b> , Undergraduate Research Assistant School of Computer Science, Wuhan University  <i>Co-advised by Prof. Yanjiao Chen and Prof. Baochun Li</i> Sep 2018 – Jul 2019 <ul style="list-style-type: none"><li>Employed deep reinforcement learning algorithms such as DQN to generate congestion control policy</li><li>Widely evaluated the designed scheme and state-of-the-art TCP variants on emulated and real networks via Mahimahi and Pantheon platform</li></ul>
PUBLICATIONS	Z. Xia, Y. Chen, F. Wang, X. Liao, H. Hu, C. Ma, <b>J. Zhang</b> , B. Li, and L. Wu, “Glider: Rethinking Congestion Control with Deep Reinforcement Learning,” <i>in submission</i> , 2019.
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none"><li>Tianyuan Dic Scholarship, Shenzhen Tianyuan Dic IT Co., Ltd. and Wuhan University 2019 For excellent academic performance and innovative thinking</li><li>Outstanding Student Scholarship, Wuhan University 2019 For excellent yearly academic and social achievements</li><li>Excellent Student Cadre, Wuhan University 2018 For outstanding leadership and cooperation skills in student affairs</li><li>Freshmen Scholarship, Wuhan University 2017 For rising stars in the first term</li></ul>
PROGRAMMING PROJECTS	<ul style="list-style-type: none"><li>Tiny FTP Client  Apr 2020<ul style="list-style-type: none"><li>Complying with RFC 959 &amp; 3659, wrote a multithreading FTP client in Java socket programming and JavaFx</li><li>Tech stack: multithreading, socket programming, GUI, Java, OOP</li></ul></li><li>Housing Prices Prediction  Aug 2019<ul style="list-style-type: none"><li>Predicted second-hand housing prices based on crawled data</li><li>Tech stack: web crawler, Python, XML, Linear Regression, NumPy, matplotlib, Keras</li></ul></li><li>Project Map  Dec 2018<ul style="list-style-type: none"><li>Partially implemented std::map in C++, based on Red-black Tree</li><li>Tech stack: advanced data structure, C++, API design</li></ul></li></ul>
LANGUAGES	<ul style="list-style-type: none"><li><b>Chinese:</b> Native language</li><li><b>English:</b> Fluent (reading, listening), Intermediate (speaking, writing)<ul style="list-style-type: none"><li>TOEFL scores: R29+L28+S23+W26=106/120</li></ul></li></ul>
SKILLS	Programming/Scripting Language: Python, Java, C/C++, JavaScript, SQL, $\text{\LaTeX}$ , Markdown Platforms/Frameworks/Tools: Linux, Git, TensorFlow, PyTorch, Keras, sklearn, MySQL, Hadoop