

Yilan Chen

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Education

University of California San Diego (UCSD)	San Diego, USA
<i>Master of Science in Computer Science (with Mathematical Courses)</i>	<i>Sep. 2020 - 2022</i>
Xi'an Jiaotong University (XJTU)	Xi'an, China
<i>Bachelor of Engineering in Information Engineering</i>	<i>Aug. 2015 - Jun. 2019</i>
National University of Singapore (NUS)	Singapore
<i>Summer Workshop by School of Computing</i>	<i>Jul. 2018 - Aug. 2018</i>

Experiences

Shanghai Jiao Tong University (SJTU)	Shanghai, China
John Hopcroft Center for Computer Science	<i>Jul. 2019 - Jun. 2020</i>
<i>Full-time Research Intern Working with Prof. Quanshi Zhang</i>	

Publications

Quantifying the Knowledge in a DNN to Explain Knowledge Distillation

- Quanshi Zhang*, Xu Cheng*, **Yilan Chen**, Zhefan Rao.
- In submission to IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI).

Explaining Knowledge Distillation by Quantifying the Knowledge.

- Xu Cheng, Zhefan Rao*, **Yilan Chen***, Quanshi Zhang.
- IEEE/CVF Conference on Computer Vision and Pattern Recognition. **CVPR 2020**.

Research & Projects

Deep Learning Theory and Robust Deep Learning	<i>Jan. 2021 - present</i>
Department of Computer Science and Engineering, UCSD	
<i>Research Intern</i> [Advisor: Prof. Lily Weng , UCSD]	
Deep Learning Theory	<i>Jun. 2020 - Sep. 2020</i>
School of Electrical and Data Engineering, UTS	
<i>Research Intern</i> [Advisor: Prof. Richard Xu , UTS]	
Interpretable Machine Learning	<i>Jul. 2019 - Jun. 2020</i>
John Hopcroft Center for Computer Science, SJTU	
<i>Research Intern</i> [Advisor: Prof. Quanshi Zhang , SJTU]	
Face Aging Prediction with Active Appearance Model	<i>Mar. 2019 - Jun. 2019</i>
Image Processing and Recognition Laboratory, XJTU	
<i>Undergraduate Thesis</i> [Advisor: Prof. Xuanqin Mou and Dr. Yijun Liang , XJTU]	
Book Recommendation System Based on IBM Cloud	<i>Jul. 2018 - Aug. 2018</i>
School of Computing, NUS	
<i>Summer Workshop Group Project</i> [Advisor: Prof. Teo Yong Meng , NUS]	

Notes & Other Projects

A Note about Neural Tangent Kernel (NTK) Derivation [\[pdf\]](#)
Some Derivations and Proofs about Linearized Networks [\[pdf\]](#)
Prototype Selection for Nearest Neighbor [\[pdf\]](#)
Coordinate Descent [\[pdf\]](#)

Honors & Awards

Outstanding Student Award (Top 10% in the department)

Sep. 2016 and 2018

“Siyuan” Merit Scholarship (Top 20%)

Sep. 2016, 2017, and 2018

XJTU’s 120th Anniversary, Certificate of Honor, chorus performance

Apr. 2016

Technical Skills

Programming: Proficient in Python, C/C++, MATLAB, JavaScript

Scientific Software and Hardware Development: PyTorch, Linux, LaTeX, FPGA, ARM

Standard English Tests: TOEFL: 104 (R29 L29 S22 W24) GRE: 321 (V155 Q166) + 3.0