

Yilan Chen

University of California San Diego, La Jolla, CA

✉ yilan@ucsd.edu · ☎ (+1) 858-260-9293 · 🌐 chenyan.net

Education

University of California San Diego (UCSD) <i>M.S. in Computer Science (with Mathematical Courses)</i> GPA: 4.0/4.0	San Diego, USA Sep. 2020 - 2022
Xi'an Jiaotong University (XJTU) <i>B.E. in Information Engineering</i>	Xi'an, China Aug. 2015 - Jun. 2019
National University of Singapore (NUS) <i>Summer Workshop by School of Computing</i>	Singapore Jul. 2018 – Aug. 2018

Experiences

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

On the Equivalence between Neural Network and Support Vector Machine.

- **Yilan Chen**, Wei Huang, Lam M. Nguyen, Tsui-Wei Weng.
- Thirty-fifth Conference on Neural Information Processing Systems (**NeurIPS 2021**).

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

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 [\[pdf\]](#)

Teaching

DSC 291 Trustworthy Machine Learning, Tutor

Fall, 2021

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: 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