

# ZEYUAN CHEN

(+86) 131-7025-8100 • nnice1216@mail.ustc.edu.cn • Homepage

## EDUCATION

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**University of Science and Technology of China, Hefei, China** 09/2018 – 06/2022

Major: Data Science and Big Data Technology, GPA: 3.82 / 4.3

- Course Highlight: Computer Vision (100); Introduction to Computer Systems (H) (100)
- Selected Awards: Silver Prize for Outstanding Student Scholarship (2020, 15%)

## PUBLICATIONS

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- **Zeyuan Chen**, Yangchao Wang, Yang Yang and Dong Liu, “PSD: Principled Synthetic-to-Real Dehazing Guided by Physical Priors,” in **CVPR’21 (oral)**,
- **Zeyuan Chen**, Yifan Jiang, Zhangyang Wang and Dong Liu, “CERL: Coordinated Enhancement for Real-World Low-Light Noisy Images,” Submitted to ICCV’21 and under review,

## EXPERIENCE

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**VITA, UT Austin** 12/2020 – 03/2021

Topic: Real-world low-light Enhancement Advisor: Prof. Atlas Wang and Prof. Dong Liu

- Proposed an optimization framework to disentangle the low-light enhancement task into separated sub-problems and solve them by plug-and-play iterations.
- Presented a self-supervised denoising model that is easily adapted for real noise removal without referring to any ground-truth clean image; as well as a improved state-of-the-art enhancement backbone.

**VITA, UT Austin** 06/2020 – 11/2020

Topic: Self-supervised Image Dehazing. Advisor: Prof. Atlas Wang and Prof. Dong Liu

- Proposed a synthetic-to-real generalization framework for dehazing, which establishes the new state-of-the-art real-world dehazing performance.
- Explored physical/statistical rules for the dehazing task and leveraged traditional dehazing priors to boost the learning-based framework.

**Data Science Lab at McMaster, McMaster University** 06/2020 – 08/2020

Topic: Entity Evolution Analysis. Advisor: Prof. Fei Chiang

- Data cleaning and filtering: Extracted and formulated raw data from several large-scale databases.
- Data modeling: Used graphs to model information about entities, their properties, and relationships between entities.
- Evolution Analysis: Exploring the underlying cause of changes in the data to discover discover changes patterns and explain data and schema evolution.

## PROJECTS AND ACTIVITIES

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**Big data training camp for Top universities in China** 08/2019

- Solved a problem of predicting credits of users using their history financial information.

**LC3 simulator and assembler** 12/2019

- Wrote a simulator and an assembler for LC3 in both python and C, with some extra features like running time recording compared to the official LC3 simulator.

## SKILLS

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**Programming Languages:** Python, C/C++, MATLAB

**Tools and Frameworks:** L<sup>A</sup>T<sub>E</sub>X, PyTorch, TensorFlow, Keras, Pandas

**Language:** TOEFL: 103 (Reading: 28, Listening: 26, Speaking: 22, Writing: 27)