

Yihao ZHAO

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EDUCATION

School of Electronics Engineering and Computer Science, Peking University (PKU), Beijing, China. Sept 2017- Jul 2021
B.E. in Computer Science, **Turing Class** (Special Class for computer science founded by John E. Hopcroft; 60 students selected from more than 3,000 students entering in 2017)
Overall GPA: 3.78/4.0 (top 7%)
Core Courses: Discrete Mathematics and Structures (96, 98)/Advanced Mathematics (92.5, Top1)/ Introduction to Computing (A) (Honor Track, 92.5)/ Algorithm Design and Analysis (Honor Track)(92)

EXPERIENCES

Research Assistant, Hyperplane Group, CFCS, PKU 2019.07-2020.09
Advisor: Prof. Hao Dong
Topic: GAN and image translation problems
Research Intern, ML Group, MSRA 2020.07-2020.10
Advisor: Shuxin Zheng
Topic: Speedup ML
Research Assistant, SAAS research lab, PKU 2020.09-Present
Advisor: Prof. Xuanzhe Liu
Topic: AI system

PUBLICATIONS AND PREPRINTS

Unpaired Image-to-Image Translation using Adversarial Consistency Loss 2020
Yihao Zhao, Ruihai Wu, Hao Dong
➤ Accepted by ECCV 2020: <https://openreview.net/forum?id=QkK1B69LMO>
➤ Proposed a novel adversarial consistency loss for image-to-image translation which overcomes the drawbacks of the widely used cycle-consistent loss; that is to say, our method can perform geometric changes, remove large objects and ignore irrelevant texture.
➤ Achieved state-of-the-art results on several challenging image-to-image translation tasks, e.g. glass removal.
Disentangling Label-Specific Features for Image Manipulation 2019
Guanqi Zhan*, Yihao Zhao*, Bingchan Zhao, Haoqi Yuan, Baoquan Chen, Hao Dong
* indicates equal contribution
➤ The arxiv link is: <https://arxiv.org/abs/1911.09943>
➤ Designed and implemented an end-to-end model to disentangle label-specific fine-grained features successfully without ground truth images for supervision
➤ Leveraged the advantages of both discrete labels and reference images to achieve image manipulation in a hybrid fashion
➤ Achieved competitive performance with other methods while ours performed more difficult tasks

TEACHING EXPERIENCE

Teaching Assistant of Introduction to Computer Systems Fall 2019
➤ Corrected students' homework and assisted teachers in the examination paper
➤ Organized the seminar and prepared topics for discussion
Teaching Assistant of Deep Generative Models Spring 2020
➤ Prepared course materials and organized discussion.

AWARD AND HONORS

Third Prize, Peking University Award, PKU Oct 2020
Merit Student Award, PKU Oct 2020
First Prize, Turing Benjing Award, PKU Oct 2019
Benz Scholarship (Only 2 for Grade 2017, EECS), PKU Oct 2018

LEADERSHIP AND ACTIVITIES

Student Union | School of Electronics Engineering and Computer Science, PKU | Minister Jun 2018 – Jun 2019

- Organized academic lectures and seminars beneficial to over 1500 students of EECS at PKU
- Proposed to construct a database sharing latest information and course materials opened for all PKU students and faculties

English Culture Communication Association | Peking University | Minister Feb 2018 – Jun 2018

- Organized culture communication activities (e.g. English Corner, Speech Contest, Spring Outing) for all PKU student

SKILLS

Extensive programming experience, solid expertise on C/C++, python

Proficient in deep learning implementation in TensorLayer, pytorch

Standard English Tests: TOEFL: Total 101 (Reading 30, Listening 26, Speaking 21, Writing 24)