HAONAN QIU

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OBJECTIVE

I'm **Haonan Qiu**, an undergraduate majoring in computer science at School of Science and Engineering at The Chinese University of Hong Kong, Shenzhen. I'm interested in Adversarial Learning, Deep Learning, and Computer Vision (particularly deep generative models).

I just finished the gap year in Sensetime and now go back to school as a senior student. Currently, I am a research intern hosted by Prof. Bo Li and work closely with Chaowei Xiao. **I'm eager to pursue a future PhD position (2020 FALL).**

EDUCATION

Bachelor of Engineering in Computer Science Aug 2015 - May 2020
The Chinese University of Hong Kong, Shenzhen, CGPA: 3.63/4.00, **MGPA: 3.97/4.00**

Summer Transfer Jun 2017 - Aug 2017
University of California, Berkeley, CGPA: 4.00/4.00

SKILLS

Programming languages Python, C++, R, Java, Matlab
Deep Learning Tools Pytorch, OpenCV

PUBLICATIONS

SemanticAdv: Generating Adversarial Examples via Attribute-conditional Image Editing
Haonan Qiu, Chaowei Xiao, Lei Yang, Xinchen Yan, Honglak Lee, Bo Li
ArXiv preprint, 2019.

Two-phase Hair Image Synthesis by A Self-Enhancing Generative Model
Haonan Qiu, Chuan Wang, Hang Zhu, Xiangyu Zhu, Jinjin Gu, Xiaoguang Han
To appear in Computer Graphics Forum (CGF), 2019.

RESEARCH EXPERIENCE

Research Intern, Super-Resolution Group at SenseTime Sep 2018 - May 2019

Research Assistant, Shenzhen Research Institute of Big Data Jan 2017 - Sep 2018

PROJECTS

Adversarial Loop for Super-Resolution in Real Scenes Sep 2018 - May 2019
Researcher

- Reproduced some influential super-resolution algorithms and integrated them in to a unified framework.
- Explore how to make full use of GAN to solve the challenge from super-resolution in real scenes.

Sketch to Hair Project Based on Deep Generative Models Jan 2018 - Sep 2018
Project Leader

- Paper retrieval (hundreds of papers) and presentation (main topics are GAN and related applications).
- Created a high quality dataset for hair synthesis. Tested almost all state of the art generative models.
- Created a self-enhancing generative model for Sketch2Hair, whose performance is far more than all other methods.

Selfie Style Transfer Software Development Feb 2018 - May 2018
Algorithm Engineer

· Surveyed existing style transfer approaches and tested some of them.
· Transferred human face into cartoon or animal style by Neural Style and Cycle-GAN.

Unmanned Aerial Vehicle -Assisted Unmanned Ground Vehicle Systems Jun 2017 - Dec 2017
Algorithm Engineer

· Designed an algorithm for automatic path planning, which took into account potential target points.
· Optimized route for the unmanned ground vehicle. Corrected the route with Kalman Filter.
· One paper accepted by ICCC (responsible for the algorithm part).

CUHK(SZ) Wechat Campus Card Development Jun 2017 - Oct 2017
Front-End Engineer

· Learned the Wechat mini program language and developed CUHKSZ mini program in two months.
· More than two-thirds of students were our users and won the Digital Star Award by Tencent.

Form Reader and Handwriting Characters Recognition Software Jan 2017 - May 2017
Software Engineer

· Designed a form reader software which could use phone to replace scanner for Admissions Office.
· Developed some effective functions for data processing on forms automatically.
· Tried to add OCR functions but failed due to the complexity of handwritten Chinese characters.

HONORS AND ACTIVITIES

Member of Dean's List	2016, 2017, 2018
Undergraduate Research Award	2016, 2017, 2018
Undergraduate Student Teaching Fellow (Teaching Assistant, 3 semesters for Python & C++ lab)	2016, 2017
Academic Performance (AP) Scholarship	2018
Tencent WeChat Campus Card "Digital Star"	2017