

Qi Li

Computer Science ♦ Auburn University, AL, USA

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Biography: Qi is a current Ph.D. student at Auburn University. His research focuses on Deep Learning, specifically, generative models and the robustness. He has published papers on main conferences and won a Best Application Paper Honorable Mention (ACCV 2020). Qi is proficient in Python, PyTorch, BASH and deep neural network visualization.

EDUCATION

Auburn University, Auburn, AL
Ph.D. in Computer Science — Deep Learning
GPA: 3.86/4.0

Dec 2019 - present
Advisor: [Anh Nguyen](#)

Auburn University, Auburn, AL
M.S. in Computer Science and Software Engineering
GPA: 4.0/4.0

Aug 2017 - present
Advisor: [Anh Nguyen](#)

Southeast University, Nanjing, China
B.S. in Computer Science and Software Engineering

Sep 2002 - Jun 2006

PUBLICATIONS

<https://scholar.google.com/citations?user=wbv5apcAAAAJ>

Research papers

- **Q. Li**, L. Mai, M. A. Alcorn, A. Nguyen (2020). A cost-effective method for improving and re-purposing large, pre-trained GANs by fine-tuning their class-embeddings. Asia Conference on Computer Vision (ACCV). **Huawei Best Application Paper Honorable Mention** (acceptance rate: $6/768 \approx 0.8\%$) [[pdf](#)] [[code](#)]
- M. A. Alcorn, **Q. Li**, Z. Gong, C. Wang, L. Mai, W. Ku, A. Nguyen (2019). Strike (with) a Pose: Neural Networks Are Easily Fooled by Strange Poses of Familiar Objects. *Computer Vision and Pattern Recognition (CVPR)*. (acceptance rate: $1,294/5,160 = 25.2\%$) [[pdf](#)] [[code](#)]

WORK EXPERIENCE

Auburn University
Graduate Research and Teaching Assistant

Aug 2018 - present
Auburn, AL

- Research on improving the samples diversity of BigGAN
- Research on generating the adversarial examples by changing the poses of objects in a 3D renderer.
- Assistant the course of Formal Languages and Deep Learning instructed by Dr. Nguyen.

Tianjin Customs
Senior Officer

Jul 2006 - Jun 2017
Tianjin, China

- Developed software and web sites including: Airport Customs Information Net, Statistical Passenger Information Check, and Courier Duty Assignment System.
- Worked in departments successively including Airport check, Office, International Express Regulations
- Edited Customs Daily News in the Office of the General Administration of Customs from 07/2009 to 02/2010

INTERNSHIP

Shanghai Alphatek Company
Technical Consultant

Jul 2005 - Mar 2006
Shanghai, China

- Oracle ERP system development based on custom requirements.

SELECTED PRESS COVERAGE

- 2019: **Nature**. [Why deep-learning AIs are so easy to fool](#)
- 2019: **New Scientist**. [The best image-recognition AIs are fooled by slightly rotated images](#)
- 2019: Communications of ACM. [March 2019 news](#).
- 2018: ZDNet. [Google's image recognition AI fooled by new trickstext](#)
- 2018: Nautilus. [Why Robot Brains Need Symbols](#)
- 2018: Gizmodo. [Google's 'Inception' Neural Network Tricked By Images Resembling Bad Video Games](#)
- 2018: Gary Marcus. [The deepest problem with deep learning](#)

PROJECTS

Improve a state of the art image-generator BigGAN Arp 2019 - Nov 2019

- Improve the sample diversity of a pre-trained class-conditional generator by modifying its class embeddings in the direction of maximizing the log probability outputs of a classifier pre-trained on the same dataset.

A simple GUI tool for generating adversarial poses of objects. Sep 2018 - Nov 2018

- Add different Deep Learning models to the GUI and implement the prediction functions.
- <https://github.com/airalcorn2/strike-with-a-pose>

AWARDS

- 2020: Huawei Best Application Paper Honorable Mention at ACCV
- 2020: Outstanding Master Student Award
- 2019: Research assistantship for the work funded by joint NSF and Adobe Research: \$4,500
- 2018: Research assistantship for the work funded by NSF: \$4,500
- 2007, 2011, 2012, 2013, 2014, 2015, 2016: Annual Assessment grading Excellent (Top 5-10%)
- 2008, 2013, 2016: Award of merit citation of third class

SERVICES AND ACTIVITIES

Volunteer

- 2019 *Computer Vision and Pattern Recognition (CVPR)* in Long beach
- 2019 BEST Robotics competition in Auburn
- 2017-2019 E-day in Auburn
- 2010 Asian Games Volunteer in Guangzhou, China
- 2008 Summer Davos in Tianjin, China
- 2008 Beijing Olympic Games in Tianjin, China

Services

- 2019 Ambassador, Council of Engineering Graduate Students (CEGS)

- 2017-2018 Vice President, Chinese Student and Scholar Association

LANGUAGES

Chinese	Native speaker
English	Fluent