

Ziqi Pang

(+86)188-0107-2796 | ziqipang@pku.edu.cn | [ziqipang.github.io](https://github.com/ziqipang)

EDUCATION

Peking University (PKU)

Beijing, China

B.S. in Computer Science GPA: 3.71 / 4.0 (Top 15%)

Sept 2016 - June 2020

- **Related Coursework:** Data Structures and Algorithms, Probability and Statistics, Operating Systems, Machine Learning, Parallel Computing, Computer Vision, etc.
- **Honors & Awards:** M Prize in Mathematical Contest in Modeling (*Jan. 2019, Top 1%~10% Worldwide*); 2nd Prize in Beijing Undergraduates' Math Competition (*Oct. 2017*); Guanghua Scholarship (*Dec. 2017, Top 10% Overall in School*); Outstanding Student Award (*Sept. 2017, Sept. 2018*); Founder Scholarship (*Nov. 2018, Top 10% Overall in School*)

RESEARCH INTEREST

Computer Vision; Machine Learning; Few-Shot Learning and Its Applications in Computer Vision

RESEARCH EXPERIENCE

Robotics Institute, Carnegie Mellon University

Pittsburgh, PA

Research Intern for Prof. Martial Hebert

June 2019 - Aug 2019

- Created a few-shot learning benchmark from ADE20K to imitate realistic conditions of long-tail distribution, multiple information sources
- Explored representation learning from multiple information sources by multi-task learning and curriculum learning
- Improved few-shot learning accuracy by 10% to 20% relatively
- Paper submitted to *Computer Vision and Pattern Recognition 2020 (CVPR2020)*

Vision and Media Computing Group, Peking University

Beijing, China

- Multi-Source Pose Guided Person Image Generation

Sept 2018 - May 2019

Research Intern for Prof. Shiliang Zhang

- Proposed geometric based preprocessing operations to preserve the salient visual details from source images.
- Combined information from multiple source images into a single target using a self-supervised learned confidence.
- Superseded the visual quality of the state-of-the-art on *Market-1501* and *CUHK-03*.

-Unsupervised Feature Learning for Person Re-Identification

June 2018 - Sept 2018

Research Intern for Prof. Shiliang Zhang

- Leveraged instance-level visual similarity for unsupervised representation learning for Person Re-ID.
- Reduced the amount of required training data for downstream tasks, with only 40% annotation needed during the fine-tuning process.

RELEVANT PROJECTS

[Multi-View Person Image Generation](#) [Graduate Computer Vision]

Sept 2018 - Jan 2019

- Explored GAN, VAE, Auto-Encoder to generate realistic and detail-sufficient human images.
- Implemented multi-view synthesis with self-learned confidence to combine multiple source images into a single target image.

[Relational Inference](#) [Probabilistic Graphical Model]

June 2018 - July 2018

- Inferred paper categories in a citation network using the Markov random field.
- Achieved comparable performance to the state-of-the-art on the public CORA dataset with accuracy more than 80%

EXTRACURRICULAR ACTIVITIES

[Forum for American-Chinese Exchange at Stanford University](#), Organizer

Mar 2017 - Mar 2019

Introduction to Computer System (Same as CMU 15213), Teaching Assistant

Sept 2018 - Jan 2019

SKILLS

Skills: Python, C++, Deep Learning Toolkits (PyTorch mainly)