

# Lingzhi Li

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## Education

### Peking University

M.S. IN SOFTWARE ENGINEERING

- 1st place in the graduate student entrance examination(1/175)
- GPA 3.77/4.0

Beijing, China

Aug. 2017 - PRESENT

### Beijing Jiaotong University

B.S. IN COMMUNICATION ENGINEERING

- GPA 84.2/100

Beijing, China

Aug. 2013 - Jun. 2017

## Skills

**Programming** Python, C/C++, CUDA, LaTeX

**Research** Generative Model, Face Replacement, Deepfake Detection

## Experience

### Microsoft Research Asia

RESEARCH INTERN

- Member of the Computer Vision group, supervised by Dong Chen. Research in deepfake detection, face replacement and semantic segmentation.

Beijing, China

Aug. 2018 - PRESENT

## Publication

### Face X-ray for More General Face Forgery Detection

LINGZHI LI\*, JIANMING BAO\*, TING ZHANG, YANG HAO, DONG CHEN, FANG WEN, BAINING GUO

Paper In Processing

### FaceShifter: Towards High Fidelity And Occlusion Aware Face Swapping

LINGZHI LI, JIANMING BAO, YANG HAO, DONG CHEN, FANG WEN

Paper In Processing

## Projects

### Face X-ray

CO-FIRST AUTHOR

- Focuses on unknown face forgery detection.
- Achieve state-of-the-art with self supervised training.

Microsoft Research Asia

Mar. 2019 - PRESENT

### FaceShifter

FIRST AUTHOR

- First gan-based open-set high fidelity face replacement algorithm.
- Only one image for both target and source person is required, and needs no further training.
- runs on real time and can handle the most extreme occlusion situation adaptively.

Microsoft Research Asia

Mar. 2019 - PRESENT

### Graph Guided Context Fusion

FIRST CONTRIBUTOR

- Achieve state-of-the-art performance in cityscapes benchmark ( ranking #3 when submitted ).
- reduce time complexity of attention operation from  $O(n^4)$  to  $O(n^3)$  while remain the same performance

Microsoft Research Asia

Aug. 2019 - Mar. 2019

### Musical Genre Classification

TEAM LEADER

- build a simple yet effective music genre classification model on FMA dataset.
- an example of combining traditional signal processing, computer vision and deep learning to solve real world problem.

TheWebConf 2018

Jan. 2018 - Jan. 2018

## Li-Fi Audio Signal Transmission System

TEAM LEADER

Beijing Jiaotong University

Jun. 2016 - Aug.2016

- build a lossless audio transmission system with a simple desk lamp.
- we conduct every step from circuit design, welding to assembling.
- proof of both strong hardware knowledge, hands-on ability and team working.

## Honors & Awards

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2018 **1st**, Jane Street Electronic Trading Competition

Beijing, China

2018 **2nd**, Citadel Data-Open Beijing

Beijing, China

2018 **Merit Student**, Academic awards of Peking University

Beijing, China

2018 **39th/3634**, Data Science Bowl, Automate Nucleus Detection Challenge

U.S.A

2017 **5th/274**, WWW 2018 Musical Genre Classification Challenge

Lyon, France