Lingzhi Li

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Education

Peking University   *Beijing, China*
M.S. IN SOFTWARE ENGINEERING   *Aug. 2017 - PRESENT*
- **1st** place in the graduate student entrance examination(1/175)
- GPA 3.77/4.0

Beijing Jiaotong University   *Beijing, China*
B.S. IN COMMUNICATION ENGINEERING   *Aug. 2013 - Jun. 2017*
- GPA 84.2/100

Skills

Programming   Python, C/C++, CUDA, LaTeX
Research   Generative Model, Face Replacement, Deepfake Detection

Experience

Microsoft Research Asia   *Beijing, China*
RESEARCH INTERN   *Aug. 2018 - PRESENT*
- Member of the Computer Vision group, supervised by Dong Chen. Research in deepfake detection, face replacement and semantic segmentation.

Publication

Face X-ray for More General Face Forgery Detection   *Paper In Processing*
LINGZHI LI*, JIANMING BAO*, TING ZHANG, YANG HAO, DONG CHEN, FANG WEN, BAINING GUO

FaceShifter: Towards High Fidelity And Occlusion Aware Face Swapping   *Paper In Processing*
LINGZHI LI, JIANMING BAO, YANG HAO, DONG CHEN, FANG WEN

Projects

Face X-ray   *Microsoft Research Asia*
CO-FIRST AUTHOR   *Mar. 2019 - PRESENT*
- Focuses on unknown face forgery detection.
- Achieve state-of-the-art with self supervised training.

FaceShifter   *Microsoft Research Asia*
FIRST AUTHOR   *Mar. 2019 - PRESENT*
- 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.

Graph Guided Context Fusion   *Microsoft Research Asia*
FIRST CONTRIBUTOR   *Aug. 2019 - Mar. 2019*
- 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

Musical Genre Classification   *TheWebConf 2018*
TEAM LEADER   *Jan. 2018 - Jan. 2018*
- 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.

Li-Fi Audio Signal Transmission System   *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

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 Chanllenge	*U.S.A*
2017	**5th/274**, WWW 2018 Musical Genre Classification Challenge	*Lyon, Fance*