

Liang Shi

Curriculum Vitae

ICT, CAS

Beijing, China

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🌐 shiliang26.github.io

Education

2021 - Present **Institute of Computing Technology, Chinese Academy of Sciences, Master of Engineering in Computer Science**
Advised by: Prof. Jie Zhang

2017 - 2021 **University of Chinese Academy of Sciences, Bachelor of Engineering in Computer Science and Technology**
Thesis advised by: Prof. Jie Zhang, Prof. Shiguang Shan

Experience

2020 - Present **Research Assistant, Visual Information Processing and Learning Group (VIPL), Institute of Computing Technology, CAS**

- Advised by Prof. Jie Zhang and Prof. Shiguang Shan
- Defending against deepfakes, including:
 - **Visual foundation models** for model robustness & deepfake detection.
 - **Model alignment** for text-to-image diffusion models.

Aug. 2020 - **Visiting Student, University of California, Berkeley**

Dec. 2020 ○ Completed graduate-level courses on Reinforcement Learning (CS285) and Neural Computation (VS265).

Aug. 2019 - **Research Assistant, National Laboratory of Pattern Recognition, Institute of Automation, CAS**

- Apr. 2020
- Advised by Prof. Shan Yu.
 - Led a project that studied group decision-making behaviors using the theory of self-organized criticality.
 - Online platform development for real-time data collection.

Publications

Under review **Real Face Foundation Representation Learning for Generalized Deepfake Detection.**

Liang Shi, Jie Zhang, Zhifeng Ji, Jinfeng Bai, Shiguang Shan. *In Submission*. [\[Link\]](#)

Under review **An Adapter-based Method and Model for ID-Specific Deepfake Detection**
Liang Shi, Jie Zhang, Shiguang Shan, et al. *Patent In Submission*.

FG 2021 **Unknown Aware Feature Learning for Face Forgery Detection.**
Liang Shi, Jie Zhang, Chenyue Liang, Shiguang Shan. *International Conference on Automatic Face and Gesture Recognition, 2021.* [\[Link\]](#)

In Preparation

In prep **A Face-blind Diffusion Model: Text-to-Image Diffusion Model Alignment against Fake Face Generation**
Liang Shi, Jie Zhang, Shiguang Shan.

In prep **One-shot ID-Specific Deepfake Detection**
Liang Shi*, Yuheng Zhang*, Jie Zhang, Shiguang Shan.

Honors & Awards

- 2023 **First-class Scholarship**
Institute of Computing Technologies (14/69)
- 2022 **First-class Scholarship**
Institute of Computing Technologies (12/61)
- 2017 - 2021 **Annual Scholarship for Students with Disabilities**
Haidian Disabled Persons' Federation, Beijing, China
- 2021 **E Fund Scholarship for Incoming Graduate Students**
Institute of Computing Technology, Chinese Academy of Sciences (12 / 400)
- 2021 **Outstanding Undergraduate Thesis**
University of Chinese Academy of Sciences (9 / 112)

Standard Tests

- 2022 **TOEFL iBT**, 113
(Reading 30, Listening 29, Speaking 26, Writing 28)
- 2019 **Graduate Record Examinations (GRE)**, 325 + 4.0
(Verbal 155, Quant 170, Writing 4.0)