

Liang Shi

Curriculum Vitae

ICT, CAS
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I'm a M.Eng student at Institute of Computing Technology, Chinese Academy of Sciences. I'm interested in designing intelligent algorithms that generalizes across various settings. My current research focuses on the ability of visual foundation models to enhance generalization, with applications in Deepfakes detection and trustworthy machine learning.

Education

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

Experience

- 2020 - **Research Assistant**, *Visual Information Processing and Learning Group (VIPL), Institute of Computing Technology, CAS*
Present
 - Advised by Prof. Jie Zhang and Prof. Shiguang Shan
 - Completed undergraduate thesis on cross-domain deepfake detection.
 - Participated in the development of a programming-based online AI course.
 - Studying visual foundation models and their application on robust deepfake detection.
 - Studying trustworthy text-to-image 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.
 - Developed an online platform for collecting real-world data of group decision-making.

Publications

- Under review **Real Face Foundation Representation Learning for Generalized Deepfake Detection.**
Liang Shi, Jie Zhang, Zhifeng Ji, Jinfeng Bai, Shiguang Shan. *In Submission.*

Under review **An Adapter-based Method and Model for Deepfake Detection of Specific Identities**

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.*

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)