

Junke Wang

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EDUCATION

Fudan University

Shanghai, China.

Ph.D candidate in School of Computer Science.

Sep 2021 ~ June 2026 (expected)

Supervised by Dr. Zuxuan Wu and Dr. Yu-Gang Jiang.

Fudan University

Shanghai, China.

Bachelor in School of Computer Science. GPA: 3.76 /4.0 Rank: 3/ 156.

Sep 2017 ~ Jun 2021

University of California, Irvine

California, USA.

Exchange Student in School of Computer Engineering. GPA: 4.0 /4.0.

Sep 2020 ~ Dec 2020

Publication

- M2TR: Multi-modal Multi-scale Transformers for Deepfake Detection. **Arxiv, 20 Apr 2021.**
Junke Wang, Zuxuan Wu, Jingjing Chen, Yu-Gang Jiang.
- FT-TDR: Frequency-guided Transformer and Top-Down Refinement Network for Blind Face Inpainting. **Under Submission.**
Junke Wang, Shaoxiang Chen, Yu-Gang Jiang.
- Depth Guided Adaptive Meta-Fusion Network for Few-shot Video Recognition. **ACM MM 2020.**
Yuqian Fu, Li Zhang, **Junke Wang**, Yanwei Fu, Yu-Gang Jiang.

Intern

Face Attribute Editing

Guangying Lab, Tencent. Jun 2020 – Sep 2020

Advisor: Dr. Yu Gang.

- use Edge-GAN for face image generation, manipulate the landmark to edit the face attributes.

Research

Deepfake Detection

Fudan University. Nov 2020 – June 2021

Advisor: Dr. Zuxuan Wu.

- propose a Multi-modal Multi-scale Transformer (M2TR) for Deepfake forensics, which uses a multi-scale transformer to detect local inconsistency at different scales and leverages frequency features to improve the robustness of detection.
- construct a large-scale and challenging Deepfake dataset SR-DF, which is generated with state-of-the-art face swapping and facial reenactment methods.

Blind Face Inpainting

Fudan University. Jun 2020 - Oct 2020.

Advisor: Dr. Yu-Gang Jiang.

- propose to detect the abnormal regions on a face image based on prior inconsistency and contextual incoherence.
- propose a top-down refinement block to restore features at different levels hierarchically.

Few-shot Video Classification

Fudan University. Dec 2019 - May 2020

Advisor: Dr. Yu-Gang Jiang.

- propose a fancy data augmentation method named Temporal Asynchronization Mechanism.
- conduct experiments on UCF-101 and HMDB dataset.

Honors & Awards

- Outstanding Graduates in Shanghai (2021)
- First Class Scholarship (2021)
- Excellent Students in Fudan University (2020)
- First Class Scholarship (2019)
- Uniqlo Scholarship (2019)
- Excellent Students Scholarship (2018)

Skills

- Programming: Python, C/C++, LATEX, R, MATLAB, HTML
- Language: Chinese-Native, English-Fluent (Toefl 99 pts)