

# Yuezun Li

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## Education

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| 2015–2020: | <b>University at Albany, State University of New York, USA</b><br>Ph.D. in Computer Science<br>Advisor: Prof. Siwei Lyu |
| 2012–2015: | <b>Shandong University, Jinan, China</b><br>M.S. in Computer Science<br>Advisor: Prof. Xueqing Li                       |
| 2008–2012: | <b>Shandong University, Weihai, China</b><br>B.S. in Software Engineering   |

## Experience

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| 2020.11–present: | Lecturer at Ocean University of China, China                    |
| 2020.9–2020.11:  | Senior research scientist at University at Buffalo, SUNY, USA   |
| 2016–2018:       | Summer intern at GE Global Research Center, Niskayuna, NY, USA. |
| 2015–2020:       | Research assistant of University at Albany.                     |

## Preprints

1. **Hiding Faces in Plain Sight: Disrupting AI Face Synthesis with Adversarial Perturbations.** Yuezun Li, Xin Yang, Baoyuan Wu and Siwei Lyu. *arXiv:1906.09288*, 2019.

## Publications

1. **Exposing GAN-generated Faces Using Inconsistent Corneal Specular Highlights.** Shu Hu, Yuezun Li and Siwei Lyu. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2021. (CCF B)
2. **Celeb-DF: A Large-scale Challenging Dataset for DeepFake Forensics.** Yuezun Li, Xin Yang, Pu Sun, Honggang Qi and Siwei Lyu. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020. (CCF A) (Acceptance rate 22%)
3. **Landmark Breaker: Obstructing DeepFake By Disturbing Landmark Extraction.** Pu Sun\*, Yuezun Li\*, Honggang Qi and Siwei Lyu. *IEEE International Workshop on Information Forensics and Security (WIFS)*, 2020.
4. **Fast Portrait Segmentation with Highly Light-weight Network.** Yuezun Li\*, Ao Luo\* and Siwei Lyu. *IEEE International Conference on Image Processing (ICIP)*, 2020. (CCF C)
5. **Exploring the Vulnerability of Single Shot Module in Object Detectors via Imperceptible Background Patches.** Yuezun Li, Xiao Bian, Ming-Ching Chang and Siwei Lyu. *The British Machine Vision Conference (BMVC)*, 2019. (CCF C) (Acceptance rate 28%)

6. **Graph-to-Graph Energy Minimization for Video Object Segmentation.** Yuezun Li<sup>\*</sup>, Longyin Wen<sup>\*</sup>, Ming-Ching Chang and Siwei Lyu. *IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS)*, 2019. (Oral) (Acceptance rate 16%)
7. **Exposing DeepFake Videos By Detecting Face Warping Artifacts.** Yuezun Li and Siwei Lyu. *IEEE International Conference on Computer Vision and Pattern Recognition Workshop (CVPRW)*, 2019.
8. **De-identification Without Losing Faces.** Yuezun Li and Siwei Lyu. *ACM Workshop on Information Hiding and Multimedia Security (IHMMSec)*, 2019. (CCF C)
9. **Exposing GAN-synthesized Faces Using Landmark Locations.** Xin Yang, Yuezun Li, Honggang Qi and Siwei Lyu. *ACM Workshop on Information Hiding and Multimedia Security (IHMMSec)*, 2019. (CCF C)
10. **Exposing Deep Fakes Using Inconsistent Head Poses.** Xin Yang<sup>\*</sup>, Yuezun Li<sup>\*</sup> and Siwei Lyu. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2019. (CCF B)
11. **Robust Adversarial Perturbation on Deep Proposal-based Models.** Yuezun Li, Daniel Tian, Ming-Ching Chang, Xiao Bian and Siwei Lyu. *The British Machine Vision Conference (BMVC)*, 2018. (CCF C) (Acceptance rate 29.5%)
12. **In Ictu Oculi: Exposing AI Generated Fake Face Videos by Detecting Eye Blinking.** Yuezun Li, Ming-Ching Chang and Siwei Lyu. *IEEE International Workshop on Information Forensics and Security (WIFS)*, 2018. (Acceptance rate 32.8%)
13. **Pixel Offset Regression (POR) for Single-shot Instance Segmentation.** Yuezun Li, Xiao Bian, Ming-Ching Chang, Longyin Wen and Siwei Lyu. *IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS)*, 2018.
14. **UA-DETRAC 2017: Report of AVSS2017 & IWT4S Challenge on Advanced Traffic Monitoring.** Siwei Lyu, Ming-Ching Chang, Dawei Du, Longyin Wen, Honggang Qi, Yuezun Li, Yi Wei and et.al. *IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS)*, 2017.
15. **The Visual Object Tracking VOT2015 Challenge Results.** (as participating team). *IEEE International Conference on Computer Vision (ICCV) Workshops*, 2015.
16. **The Thermal Infrared Visual Object Tracking VOT-TIR2015 Challenge Results.** (as participating team). *IEEE International Conference on Computer Vision (ICCV) Workshops*, 2015.

## Publications Impact

$h$ -index=11; total citations=916.<sup>1</sup>

## Media Coverage

1. 2019.04: Our work on detecting DeepFake has been covered by **Chinese National TV (CCTV)**. [Link]
2. 2019.02: Our work on detecting DeepFake is featured on **Univision**. [Link]

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<sup>1</sup>Citation counts according to GoogleScholar as of Feb 2021

## Projects

1. 2020.9-present: **DeepFake-o-meter**. I led DeepFake-o-meter project, which is an open platform integrating state-of-the-art DeepFake detection methods. Users can upload videos and select detection methods to verify the authenticity. Meanwhile, researchers can also integrate their detection methods to this platform.

## Talks/Reports

1. 2020.02: Invited talk on "Detecting AI-synthesized Faces" at The 2nd annual SUNY Graduate Student Research Showcase, Albany.
2. 2020.01: Invited poster on "Detecting AI-synthesized Faces" at WGBH, Boston.

## Professional Service

Journal Reviewer: IEEE Transactions on Information Forensics and Security; IEEE Transactions on Pattern Analysis and Machine Intelligence; IEEE Transactions on Neural Networks and Learning Systems; IEEE Journal of Selected Topics in Signal Processing; Signal Processing; ACM Computing Surveys; IEEE Transactions on Multimedia

Conference Reviewer: CVPR; IJCB; AVSS