Yandong Wen

CONTACT INFORMATION

Office: Max-Planck-Ring 4, Tuebingen, Germany
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RESEARCH INTERESTS

Human Face and Voice Understanding, Face/Speaker Recognition, Face Reconstruction, Cross-modal Learning

EDUCATION

Carnegie Mellon University — Pittsburgh, United States
Ph.D. in Electrical and Computer Engineering — Sep. 2016 - May 2022

South China University of Technology — Guangzhou, China
M.Eng. in Electronic and Information Engineering — Sep. 2013 - Jul. 2016

South China University of Technology — Guangzhou, China
B.Eng. in Electronic and Information Engineering — Sep. 2009 - Jul. 2013

WORK & RESEARCH EXPERIENCE

Max Planck Institute for Intelligent Systems — Jun. 2022 - Present
Postdoctoral Researcher with Perceiving Systems Group
- Topic: 3D Face/Body Animation from Speech
- Advisor: Prof. Michael J. Black

Facebook Reality Labs at Pittsburgh — Jun. 2020 - Dec. 2020
Research Intern
- Topic: Disentangled Representation Learning for 3D Facial Geometry
- Mentor: Dr. Alexander Richard and Prof. Fernando De la Torre

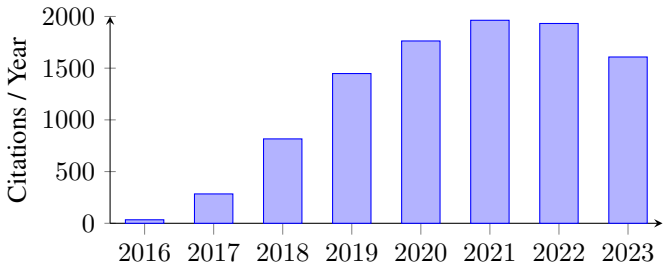
ULSee Inc. — Oct. 2016 - Mar. 2018
Research Consultant
- Topic: Deep Learning based Face Recognition in Real-World

Carnegie Mellon University — Sep. 2016 - May 2022
Research Assistant with Machine Learning and Signal Processing Group
- Topic: Reconstruction of Human Faces from Voice
- Advisor: Prof. Rita Singh and Prof. Bhiksha Raj

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences — May 2015 - Sep. 2016
Visiting Student with Multimedia Research Center
- Topic: Deep Learning based Face Recognition in the Wild
- Mentor: Prof. Zhifeng Li & Prof. Yu Qiao

South China University of Technology — Sep. 2013 - May 2015
Research Assistant with Intelligent Information Processing Group
- Topic: Sparse Representation based Face Recognition
- Advisor: Prof. Yuli Fu

SCIENTIFIC IMPACT



CITATION INDICES

Citations:	9951
h-index:	16
i10-index:	17
source:	scholar.google.com
Accessed:	24.11.2023

SELECTED PUBLICATIONS

(* **indicates equal contribution**)

1. **Text-Guided Generation and Editing of Compositional 3D Avatars**
   Hao Zhang, Yao Feng, Peter Kulits, Yandong Wen, Justus Thies, Michael J. Black
   *International Conference on 3D Vision (**3DV**) 2023*

2. **Rethinking Voice-Face Correlation: A Geometry View**
   Xiang Li, Yandong Wen, Muqiao Yang, Jinglu Wang, Rita Singh, Bhiksha Raj
   *ACM Multimedia (**ACM MM**) 2023*

3. **The Hidden Dance of Phonemes and Visage: Unveiling the Enigmatic Link between Phonemes and Facial Features**
   Liao Qu, Xianwei Zou, Xiang Li, Yandong Wen, Rita Singh, Bhiksha Raj
   *International Speech Communication Association (**InterSpeech**) 2023*

4. **Emotional Speech-Driven Animation with Content-Emotion Disentanglement**
   Radek Daněček, Kiran Chhatre, Shashank Tripathi, Yandong Wen, Michael J. Black, Timo Bolkart Schölkopf
   *ACM SIGGRAPH Conference and Exhibition on Computer Graphics and Interactive Techniques in Asia (**SIGGRAPH Asia**) 2023*

5. **Pairwise Similarity Learning is SimPLE**
   Yandong Wen, Weiyang Liu, Yao Feng, Adrian Weller, Rita Singh, Bhiksha Raj, Michael J. Black, Bernhard Schölkopf
   *International Conference on Computer Vision (**ICCV**) 2023*

6. **TalkSHOW: Generating Holistic 3D Human Motion from Speech**
   Hongwei Yi*, Hualin Liang*, Yifei Liu*, Qiong Cao, Yandong Wen, Timo Bolkart, Dacheng Tao, Michael J. Black
   *Conference on Computer Vision and Pattern Recognition (**CVPR**) 2023*

7. **SphereFace2: Binary Classification is All You Need for Deep Face Recognition**
   Yandong Wen*, Weiyang Liu*, Adrian Weller, Bhiksha Raj, Rita Singh
   *International Conference on Learning Representations (**ICLR**) 2022* **Spotlight**

8. **SphereFace Revived: Unifying Hyperspherical Face Recognition**
   Weiyang Liu*, Yandong Wen*, Bhiksha Raj, Rita Singh, Adrian Weller
   *IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) 2022*

9. **Self-Supervised 3D Face Reconstruction via Conditional Estimation**
   Yandong Wen, Weiyang Liu, Bhiksha Raj, Rita Singh
   *International Conference on Computer Vision (**ICCV**) 2021*

10. **MeshTalk: 3D Face Animation from Speech using Cross-Modality Disentanglement**
    Alexander Richard, Michael Zollhöfer, Yandong Wen, Fernando de la Torre, Yaser Sheikh
    *International Conference on Computer Vision (**ICCV**) 2021*

11. **Face Reconstruction from Voice using Generative Adversarial Networks**
    Yandong Wen, Mahmoud Al Ismail, Weiyang Liu, Bhiksha Raj, and Rita Singh
    *Advances in Neural Information Processing Systems (**NeurIPS**) 2019*

12. **Disjoint Mapping Network for Cross-modal Matching of Voices and Faces**
    Yandong Wen, Mahmoud Al Ismail, Weiyang Liu, Bhiksha Raj, and Rita Singh
    *International Conference on Learning Representations (**ICLR**) 2019*

13. **A Comprehensive Study on Center Loss for Deep Face Recognition**
    Yandong Wen, Kaipeng Zhang, Zhifeng Li, and Yu Qiao
    *International Journal of Computer Vision (**IJCV**) 2019* **WAICYOP award** (source)

14. **A Corrective Learning Approach for Text-Independent Speaker Verification**
    Yandong Wen, Tianyan Zhou, Bhiksha Raj, and Rita Singh
    *International Conference on Acoustics, Speech, & Signal Processing (**ICASSP**) 2018*

15. **Range Loss for Deep Face Recognition with Long-tailed Training Data**
    Xiao Zhang, Zhiyuan Fang, Yandong Wen, Zhifeng Li, Yu Qiao
    *International Conference on Computer Vision (**ICCV**) 2017*

16. **SphereFace: Deep Hypersphere Embedding for Face Recognition**
    Weiyang Liu, Yandong Wen, Zhiding Yu, Ming Li, Bhiksha Raj, Le Song
    *Conference on Computer Vision and Pattern Recognition (**CVPR**) 2017* **Most cited papers #19**

17. **A Discriminative Feature Learning Approach for Deep Face Recognition**
    Yandong Wen, Kaipeng Zhang, Zhifeng Li, and Yu Qiao
    *European Conference on Computer Vision (**ECCV**) 2016* **Most cited papers #6**

18. **A Large-Margin Softmax Loss for Convolutional Neural Networks**
    Weiyang Liu*, Yandong Wen*, Zhiding Yu, and Meng Yang
    *International Conference on Machine Learning (**ICML**) 2016* **Most cited papers #16**

19. **A Latent Factor Guided Convolutional Neural Networks for Age-Invariant Face Recognition**
    Yandong Wen, Zhifeng Li, and Yu Qiao
    *Conference on Computer Vision and Pattern Recognition (**CVPR**) 2016*

Technical Report

1. **Parameter-Efficient Orthogonal Finetuning via Butterfly Factorization**
   Weiyang Liu*, Zeju Qiu*, Yao Feng**, Yuliang Xiu**, Yuxuan Xue**, Longhui Yu**, Haiwen Feng, Zhen Liu, Juyeon Heo, Songyou Peng, Yandong Wen, Michael J. Black, Adrian Weller, Bernhard Schölkopf

Teaching Experience

Teaching Assistant, Carnegie Mellon University

- (11-755/18-797) Machine Learning and Signal Processing — Fall 2018, Fall 2019

Academic Services

- Journal Reviewer: T-PAMI, IJCV, T-NNLS, T-IP, T-MM
- Conference Reviewer: ICCV, CVPR, ECCV, ICLR, NeurIPS, ICML

Awards

- World's TOP 2% Scientists — 2020 & 2021 & 2022
- CVPR Outstanding Reviewer — 2021
- NeurIPS Travel Grants — 2019
- ICLR Travel Grants — 2019
- Goodix Scholarship — 2015