

# Zhizhong Huang

 [Github](#) |  [Homepage](#) |  [zzhuang19@fudan.edu.cn](mailto:zzhuang19@fudan.edu.cn) |  [Google Scholar](#)

## SUMMARY

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I am a fourth-year Ph.D. student at Fudan University advised by [Prof. Junping Zhang](#) and [Dr. Hongming Shan](#). Previously, I got my bachelor's degree from Sichuan University in 2019. My main research interests include unsupervised/semi-supervised learning, generative model and biometrics, especially face-related applications. I am highly self-motivated, of great passion/coding skills, and able to work independently.

## EDUCATION

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2019 - 2024    Ph.D. candidate in Computer Science at **Fudan University**, Shanghai, China.  
2015 - 2019    Bachelor in Software Engineering at **Sichuan University**, Chengdu, China.  
GPA: 3.71/4.0 (top 4%).

## HONORS AND AWARDS









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2016 - 2017    National Scholarship.  
2017 - 2018    National Scholarship.  
2020 - 2021    National Scholarship.  
2021            Second prize of CCF University Student Academic Show (PhD Group)  [Chinese Link](#)

## SELECTED PUBLICATIONS

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### Journal

- **Zhizhong Huang**, Junping Zhang and Hongming Shan. "When Age-Invariant Face Recognition Meets Face Age Synthesis: A Multi-Task Learning Framework and A New Benchmark." IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) 2022.  [Code](#) |  [arXiv](#)
- **Zhizhong Huang**, Jie Chen, Junping Zhang and Hongming Shan. "Learning Representation for Clustering via Prototype Scattering and Positive Sampling." IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) 2022.  [Code](#) |  [arXiv](#)
- **Zhizhong Huang**, Shouzhen Chen, Junping Zhang, and Hongming Shan. "PFA-GAN: Progressive Face Aging with Generative Adversarial Network." IEEE Transactions on Information Forensics and Security (**TIFS**) 2021.  [Code](#) |  [arXiv](#)
- **Zhizhong Huang**, Junping Zhang, Yi Zhang, and Hongming Shan. "DU-GAN: Generative Adversarial Networks with Dual-Domain U-Net Based Discriminators for Low-Dose CT Denoising." IEEE Transactions on Instrumentation and Measurement (**TIM**) 2021.  [Code](#) |  [arXiv](#)

### Conference

- **Zhizhong Huang**, Siteng Ma, Junping Zhang, and Hongming Shan. "Adaptive Nonlinear Latent Transformation for Conditional Face Editing." International Conference on Computer Vision (**ICCV**) 2023.  [Code](#) |  [arXiv](#)
- **Zhizhong Huang**, Junping Zhang, and Hongming Shan. "Twin Contrastive Learning with Noisy Labels." Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2023.  [Code](#) |  [arXiv](#)
- **Zhizhong Huang**, Junping Zhang, and Hongming Shan. "When Age-Invariant Face Recognition Meets Face Age Synthesis: A Multi-Task Learning Framework." Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR Oral**) 2021.  [Code](#) |  [arXiv](#)

- **Zhizhong Huang**, Shouzhen Chen, Junping Zhang, and Hongming Shan. “AgeFlow: Conditional Age Progression and Regression with Normalizing Flows.” International Joint Conference on Artificial Intelligence (IJCAI) 2021. [Code](#) | [arXiv](#)

## Preprint

- Jiaqi Gao, **Zhizhong Huang**, Yiming Lei, James Z. Wang, Fei-Yue Wang and Junping Zhang. “S2FPR: Crowd Counting via Self-Supervised Coarse to Fine Feature Pyramid Ranking.” [Code](#) | [arXiv](#)

## PROJECTS

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### Pytorch-openpose (over 1.7k stars)

[Github](#)

Pytorch implementation of openpose including Hand and Body Pose Estimation.

### Precipitation-Nowcasting (472 stars)

[Github](#)

Implemented a pytorch-based encoder-forecaster model with RNNs including (TrajGRU, ConvLSTM) to do precipitation nowcasting.

### Torch clustering

[Github](#)

A pure PyTorch implementation of kmeans and GMM with distributed clustering.

## SKILLS AND SERVICES

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**English**     CET-6

**Reviewer**    Top Conferences such as ICML, NIPS, CVPR, *etc.*

**Coding**     Python, PyTorch, *etc.*