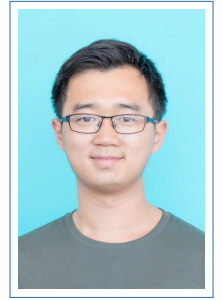


Wenbin Teng

Curriculum Vitae

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Education

- Aug 2022 – **University of Southern California, Los Angeles, CA,**
May 2027 Ph.D. in Computer Science, Focus: Computer Vision and Computer Graphics,
GPA 3.65/4.0.
Advisor: Yajie Zhao
- Sep 2015 – **Boston University, Boston, MA,**
Jan 2019 B.A. in Statistics, B.A. in Economics, Magna Cum Laude, Dean's list (7 semesters),
GPA: 3.77/4.0, Statistics Major GPA: 3.93/4.0.
- Sep 2013 – **Xi'an Jiaotong University, Xi'an, Shaanxi, China,**
July 2015 Concentration in Finance, GPA: 83.8/100.

Research Interests

Video Generation, Diffusion Models, Novel View Synthesis, 3D Reconstruction

Publications

- 2024 Gao, Z., **Teng, W.**, Chen, G., Wu, J., Qin, R., Zhao, Y., "Skyeyes: Ground Roaming using Aerial View Images", arxiv preprint, 2024.
- 2024 Chen, G., Wu, J., Gao, Z., **Teng, W.**, Qin, R., Zhao, Y., "GeoAmplifier: Feature Matching Enhancement through Geometry-Aware Optimization," arxiv preprint, 2024.
- 2023 Yang, J., Xiao, H., **Teng, W.**, Cai, Y., Zhao, Y., "Light Sampling Field and BRDF Representation for Physically-based Neural Rendering," In The Eleventh International Conference on Learning Representations.
- 2021 **Teng, W.** and Bai, C., "Unimodal Face Classification with Multimodal Training," 2021 16th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2021), 2021, pp. 1-5, doi: 10.1109/FG52635.2021.9666965.

Experience

- Aug 2022 – **Research Assistant, USC Institute for Creative Technologies.**
Present
 - Lead research projects on scene construction and sparse novel view synthesis with image and video diffusions.
 - Participated in research projects related to feature matching, Structure from Motion Reconstruction, NeRF and 3D Gaussian Splatting.
 - Submitted and published research papers to ICLR, 3DV and WACV.
- May 2024 – **Research Intern, SRI International, Center for Vision Technologies.**
Aug 2024
 - Research on sparse novel view synthesis with multi-view and video diffusion models.
 - Research on sparse 3D reconstruction with customized 3D Gaussian Splatting.
- Oct 2020 – **Research Intern, Department of Computer Vision Technology, Baidu Inc..**
Mar 2021
 - Proposed an image-to-image translation framework for unsupervised domain adaptation on cross-database face anti-spoofing.

- May 2020 – **Research Intern**, *Johns Hopkins University CCVL Lab, Advisor: Alan Yuille.*
- Oct 2020
- Researched on model-based face autoencoder for 3D face rendering.
 - Performed iterative adversarial attack on the autoencoder through perturbation optimization.
- Jan 2020 – **Research Assistant**, *Dartmouth College, Advisor: Chongyang Bai.*
- Aug 2021
- Proposed a multimodal training and unimodal testing (MTUT) framework on face classification task.
 - Constructed a first-author research paper and published in IEEE FG 2021.
- Jan 2018 – **Research Assistant**, *Boston University, Advisor: Allen G. Harbaugh.*
- Aug 2018
- Conducted research on patterns of model selection protocols such as Mallow's C_p and information criteria with simulated data.
 - Presented primary experiment result in Modern Modelling Methods (MMM) Conference 2018; presented project poster in Boston University Undergraduate Research Opportunity Program (UROP) symposium.

Academic Service

2025 WACV, CVPR

Teaching

- Aug 2022 – **University of Southern California**, *Teaching Assistant.*
- Dec 2022
- Introduction to Programming in C++ (CSCI 103L). Instructor: Prof. Mark Redekopp.
- Jan 2023 – **University of Southern California**, *Teaching Assistant.*
- May 2023
- Database Systems (CSCI 585). Instructor: Prof. Saty Raghavachary.
- Aug 2024 – **University of Southern California**, *Teaching Assistant.*
- Dec 2023
- Introduction to Artificial Intelligence (CSCI 360). Instructor: Prof. Mohammad Reza Rajati.

Honors & Awards

- 2019 **Magna Cum Laude**, *Boston University*
- 2015 – 2018 **Dean's List**, *Boston University*
- 2018 **UROP Stipends Award**, *Boston University*

Skills & Interests

Programming Python, R, Java, Linux, C++, SQL, VBA, MATLAB, \LaTeX , Unix

Frameworks PyTorch, Tensorflow, Keras, PaddlePaddle

Utilities Anaconda, Git, Jupyter Notebook

Languages Mandarin (Native), English (Fluent)

Interests Badminton, Fitness, Cooking

Relevant Courses

- USC 3D Rendering and Graphics, Advanced Analysis of Algorithms, Advanced Computer Vision, Mathematics of High-Dimensional Data
- Boston University Machine Learning, Probability, Computational Statistics, Data Science in R, Mathematical Statistics, Introduction to Stochastic Processes, Time Series and Forecasting, Linear Models, Applied Multiple Regression and Multivariate Methods.