

# Wenbin Teng

## Curriculum Vitae

225 S Grand Ave  
Los Angeles, CA, 90005  
☎ (551) 200 4843  
✉ wenbinte@usc.edu  
🌐 Homepage  
🐙 GitHub  
in LinkedIn



## 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.

## Publications

- 2025 Teng, W., Xiong, H., Xiao, H., Chen, G., Mithun, N.C., Wang, Q., Samarasekera, S., Kumar, R., Zhao, Y., "SRVD: Sparse View Scene Reconstruction with Video Diffusion Model", *In submission to CVPR 2025*
- 2025 Chen, G., Fu T., Chen, H., **Teng, W.**, Xiao, H., Zhao, Y., "RDD: Robust Feature Detector and Descriptor using Deformable Transformer", *In submission to CVPR 2025*
- 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
- 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.

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## 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.

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## Honors & Awards

2019 **Magna Cum Laude**, *Boston University*

2015 – 2018 **Dean's List**, *Boston University*

2018 **UROP Stipends Award**, *Boston University*

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## Skills & Interests

Programming Python, R, Java, Linux, C++, SQL, VBA, MATLAB,  $\text{\LaTeX}$ , Unix

Frameworks PyTorch, Tensorflow, Keras, PaddlePaddle

Utilities Anaconda, Git, Jupyter Notebook

Languages Mandarin (Native), English (Fluent)

Interests Badminton, Fitness, Cooking

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## 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.