

2025

无人渡我，我亦成舟

我最大的依靠不是别人，而是自己；面对人生的风浪，我既是那个需要过河的人，也是那艘唯一能载我过河的船。

January & February, 2025

Weeks

Interests

- ✓ 撰写个人 2024 年度总结报告;
- ✓ 起笔大学四年总结报告;
- ✓ 构建起基本完整的社交网络，以及关系的定量分析;
- ✗ 构建西电计科传承指南站点;

Learning

- ✗ 完成 GAMES101 课程学习以及图形学领域的相关知识;

Research

- ✗ 总结鲁棒性提示学习的研究工作，汇总相关思路笔迹，归档科研习惯、写作技巧等心得;
- ✓ 阅读三维人脸重建领域的研究论文，复现最新研究成果以及探究科研思路;

March, 2025

Week 1: 了解研究方向

February 14

- ✓ Read *Gaussian Head Avatar: Ultra High-fidelity Head Avatar via Dynamic Gaussians*;
- ✓ Read 《三维人脸成像及重建技术综述》and summary;

February 18

- ✓ Set up data collection and processing pipeline—VHAP;

February 19

- ✓ Read *Learning a model of facial shape and expression from 4D scans* and make a summary

February 20

- ✓ Finished configuring the experimental environments and training pipelines—GaussianAvatar;

Week 2: 完成毕设中期工作

研究 GaussianAvatars 论文及项目，完成毕设中期检查报告

February 21

- ✓ Read *GaussianAvatars: Photorealistic Head Avatars with Rigged 3D Gaussians* and make a summary;

February 23

- ✓ Explore the VHAP working pipelines and learn the FLAME model;

Week 3: 调研数字人 Audio-Driven 研究脉络

- 调研方法和目标
 - 搜集近年来相关研究论文，整理归纳;
 - 阅读每一篇论文并进行简要总结：总结研究任务，方法，存在的挑战;
 - 汇总所有论文总结，形成综述报告;
- 论文追溯
 - Inspiration: 从论文中追溯启发的文章;
 - Basic Model: 从论文中积累经典的模型结构;

March 4

- ✓ Read *EMO: Emote Portrait Alive - Generating Expressive Portrait Videos with Audio2Video Diffusion Model under Weak Conditions* and make a summary;

March 5

- ✓ Read *MO2: End-Effector Guided Audio-Driven Avatar Video*

Generation and make a summary;

March 6

- ✓ Read *VividTalk: One-Shot Audio-Driven Talking Head Generation Based on 3D Hybrid Prior* and make a summary;
- ✓ Read *Lip Movements Generation at a Glance* and make a summary;

March 7

- ✓ Read *[GAN-Based] [CVPR 2017 Speech2Vid] You said that?* and make a summary;
- ✓ Read *[GAN-Based] [CVPR 2019 FacialAnimation] Realistic Speech-Driven Facial Animation with GANs* and make a summary;

Week 4: Paper Reading

March 10

- ✓ Determine the roadmap of research survey;

March 18

- ✓ Determine the research direction of *3D Real-time Audio-driven Talking Head Generation*;

March 23: Adjustment

- ✓ Reading paper in the morning and coding in the afternoon;
- ✓ Learning in the evening and make a daily summary;

Week 5: Paper Reading

March 24

- ✓ Read AD-NeRF, ER-NeRF and make a summary;
- ✓ Read the codes of GuassianTalker;

March 25

- ✓ Read the *Efficient Region-Aware Neural Radiance Fields for High-Fidelity Talking Portrait Synthesis* and make a summary;

March 26

- ✓ Read the *Real-time Neural Radiance Talking Portrait Synthesis via Audio-spatial Decomposition* and make a summary;
- ✓ Summarize the section 1 of Scratchapixel;

March 31

- ✓ Add the UNet Network to enhance the GaussianAvatar and finish coding;
- ✓ Finish writing the *Introduction* of the undergraduate thesis;

April, 2025

- Adjust Shedules
 - Spend two weeks on finishing the research survey and the summary slides;
 - The last two weeks will be taken to finish the undergraduate thesis.
- Fruit Display
 - A good designed and resealed slide;
 - A well organized thesis and the prepared project;

Week 1: Research Survey and Not Continued

April 1

- ✓ Scan the collected papers;
- ✓ Make the template of summarized slides;

April 2

- ✓ Read a research survey and make a summary;

Week 2: Quickly Overcame the Undergraduate Thesis

- ✓ Finished the undergraduate thesis;

Week 3 to 4: I don't know. It's a mess.

- ✗ What I have did? I don't know.
- ✓ Read the LAM paper and tried to reproduce it.
- ✓ It seemed that I was also dedicated to 3DAvatar Viewer.

May, 2025

Week 1: Labour Vacation

May 1

- ✓ Have a good rest in my room and have nothing to do;

May 2

- ✓ Go to the laboratory and have a short walk along the Shenzhen Bay at dusk;

May 3

- ✓ Have a meal with relatives and friends;

May 4

- ✓ Go to the Lotus Pond Park with relatives and friends;

Week 2: Debugging the 3D Avatar Viewer

May 5

- ✓ Summary all things and stay motivated;
- ✓ Have wrote an essay about my trip in Labour Holiday;
- ✓ Debugging the 3D Avatar Viewer and seemed have founded one problem.

May 6

- ✓ **Working:** Retraining the GaussianAvatars with saving global position, scale, rotation;
- ✓ **Working:** Failed debugging and change to reproduce the OpenChatAvatar;
- ✓ **Wealther:** Dense rain, thick fog and rolling thunder;

May 7

- ✓ **Working:** Have a better understanding and verify the data loader, but not be sure yet;
- ✓ **Wealther:** Dense rain in the morning and become wet in the road;

May 8

- ✓ **Working:** Have founded a good problem in 3DAvatar Viewer but still struggled to solve it;
- ✓ **Emotion:** Tired of this debugging and go home directly at night;

May 9

- ✓ **Working:** Still keep motivated to face with it and I don't know what will happen; —writing in the morning
- ✓ **Plan:** Just to decompose the long JavaScript codes into several well-organized files and make a summary about the codes structure;
- ✓ **Emotion:** A little excited because of the Friday;

May 10

- ✓ **Vocation:** Have a good Saturday and reset without going out.

May 11

- ✓ **Doing:** A prepared day for returning to Xian.
- ✓ **Emotion:** Have a dinner together with all senior brothers.

Week 3: 本科优秀毕业生评选

- Meeting
 - Have a talk and a photo together with the reachable friends;
 - Go to dinner with all roommates and pull the hearts together.
- Working
 - Update the blog of SRRS and the github repository.
 - Advance the undergraduate thesis and make sure all materials best and ready;
 - Struggle to finish the 3D Avatar Viewer. Must be successful
- Hobbies
 - Release a blog about the logging media and summary sheet;
 - Open a gallery page in blog to show the whole life trip;
 - Go to have a good look about the Xidian University and take photos for essay writing.
- Living
 - Sell the unused things to the next generation for clean up old but still good things.

May 12

- ✓ **Trip:** Taking a flight from Shenzhen to Xian.
- ✓ **Shedules:** Making several working and living tasks to fin-

ish.

May 13

- ✗ **Trip:** Have forgot what I did.

May 14

- ✓ **Working:** Reproduce the results of the 3D Gaussian Avatar Viewer.

May 15

- ✓ **Hobbies:** Finishe the goal of **Open a gallery page**.

May 16

- ✓ **Meeting:** Have a hearty dinner with some roommates.

May 17

- ✓ **Working:** Testing the render but got bad results.

Week 4: 本科毕设之软硬件验收

May 19

- ✓ **Working:** Finding the problem of GaussianAvatar Viewer and achieved the static rending.
- ✓ **Meeting:** Have a good dinner and rest with best friends.

May 20

- ✓ **Working:** Just do nothing but tuning the LAM viewer without any production.
- ✓ **Fitness:** Running for 2km in the playground but got hurt on foot.

May 21

- ✓ **Working:** Make sure to be fully prepared for tomorrow's hardware and software inspection.
- ✓ **Rest:** Just have a good rest for my hurt foot.

May 22

- ✓ **Working:** Successfully passed hardware and software inspection and got the high score of 94.

May 23

- ✓ **Living:** Still have a day spent in the dorm.
- ✓ **Working:** Revised my undergraduate thesis and then finalized it.

May 24

- ✓ **Working:** Upload my undergraduate thesis and preparing the presentation slides for the final defense.

Week 5: 本科毕设之终期答辩

May 27

- ✓ **Working:** Apply the honor of graduate star, preprint the thesis and materials, make the slides.

May 28

- ✓ **Working:** Attend to the final defense and got the highest score in the group.

June, 2025

Week 1

Header 2

July, 2025

Week 1
Header 2

August, 2025

Week 1
Header 2

September, 2025

Week 1
Header 2

October, 2025

Week 1
Header 2

November, 2025

Week 1
Header 2

December, 2025

Week 1
Header 2