SONG, CHENYU

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EDUCATION

Oregon State University, Oregon, US **Sept 2019 - Jun 2023**

- Major: Computer Science; Degree: Bachelor of Science (Expected)
- **Overall GPA: 3.71/4.00**
- **Core Courses**: Operating Systems, Software Development, Algorithm Research, Senior Software Engineering Project, Machine Learning, Data Mining, Intro to Mathematical Statistics, Vector Calculus, Linear Algebra

PROJECTS

Project: Mask Detection and Classification with Different Convolutional Neural Networks

Member, *supervised by Prof. Victor Adamchik from University of Southern California* **Jul - Sep 2021**

- Learned the knowledge of convolutional neural networks
- Established the LeNet-5 network for optimizers testing
- Analyzed and compared the efficiency of existing convolutional neural networks in image recognition
- Obtained the best neural network structure for mask detection

Project: Online Recommendation and Ranking System Development **Jun 2022 - Present**

Member, *supervised by Associate Prof. Huazheng Wang from Oregon State University*

- Studied reinforcement learning and multi-armed bandit algorithms
- Investigated the algorithms of existing recommendation systems, such as CascadeLinUCB, CascadeLinTS, RecurRank, and TopRank
- Tested oracle attack and theta-based attack

Capstone Project: AR Artwork Application Development **Sep 2022 - Present**

Member

- Identified the main functions to be supporting live videos and real-time moving paintings transforming
- Expected to complete the neural network construction, data testing, and convolutional neural model establishment to transform artistic formats
- Planned to optimize the model by shortening the running time and supporting corresponding software development

PUBLICATION

Qianru Li, **Chenyu Song**, Xinhong Xie, *Mask Detection and Classification with Different Convolutional Neural Networks* (Published at 2022 International Conference on Cloud Computing, Performance Computing and Deep Learning); Above authors contributed equally

TECHNICAL SKILLS

Proficient: C, C++, Python

Basic: JS, Java, Kotlin, Html, PyTorch, TensorFlow