

Xuanbai Chen

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EDUCATION

College of Computer Science, Nankai University (NKU), Tianjin, China

Jun. 2021

Bachelor of Engineering in Computer Science

- **GPA:** 90.38/100, **Rank:** 5/117 (Top 5%)
- **Core Courses:** Linear Algebra (99), Data Structure (94), Computer Network (93), Fundamentals of Compiling (93), Probability and Mathematical Statistic (97), Operating System (93), Visualization Technology (97)
- **Honors and Awards:** Tianjin Scholarship (2019-2020, Top 3%)

UC Berkeley, California, US

Spring 2020

Exchange Program

- **GPA:** 3.92/4.0
- **Courses:** Image Manipulation, Computer Vision & Computational Photography (A, instructed by Alexei Efros), Digital Image Processing (A-, Avideh Zakhor), Design of Microprocessor-Based Mechanical Systems (A, George Anwar)

PUBLICATIONS

1. **Emotional Semantics-Preserved and Feature-Aligned CycleGAN for Visual Emotion Adaptation**

Sicheng Zhao*, Xuanbai Chen*, Xiangyu Yue, Chuang Lin, Pengfei Xu, Ravi Krishna, Jufeng Yang, Guiguang Ding, Alberto L. Sangiovanni-Vincentelli, Kurt Keutzer (* indicates equal contribution)

IEEE Transactions on Cybernetics (IEEE TCYB), 2021. [Accepted]

ArXiv: <https://arxiv.org/abs/2011.12470>

2. **Title anonymous (based on double blind)**

Jiehang Xie, Xuanbai Chen, Tao Zhong, Tianyi Zhang, Shao-Ping Lu, Pablo Cesar, Yulu Yang

2021 IEEE on Computer Vision and Pattern Recognition (CVPR), 2021. [Submitted]

RESEARCH EXPERIENCE

Research Assistant, Media Computing Lab, Nankai University

Jul. 2020 - Present

Advisor: Prof. Shao-Ping Lu, College of Computer Science & Prof. Pablo Cesar, TU Delft

Focus: Human Body Manipulation Detection

- Create and collect source images and videos from real-world platforms and manipulate them
- Conduct extensive experiments on paired (raw-tampered) data to implement manipulation detection

Research Assistant, Berkeley Artificial Intelligence Research, UC Berkeley

Jan. – Jul. 2020

Advisor: Prof. Kurt Keutzer & Postdoc Research Fellow. Sicheng Zhao, Department of EECS

Focus: Unsupervised Domain Adaptation in Image Emotion Recognition

- By employing modified GAN which adds dynamic semantic consistency loss, we trained a model on one source domain to perform well on another target domain on emotion distribution learning and dominant emotion classification tasks
- Conducted extensive experiments on 4 large-scale emotion deep learning datasets

Research Assistant, Database and Information System Laboratory, Nankai University

Jun. 2019 - Jan. 2020

Advisor: Prof. Ying Zhang, College of Computer Science

Focus: Process of Electronic Medical Records and Vision Forecast under a web platform

- Apply RandomForest machine learning architecture to train a model after cleaning raw medical data
- Implemented visualization platform using Yii framework to exchange information between frontend and backend, and employed the aforementioned model to implement Vision Forecast

PROJECTS

Computer Network, Nankai University

Nov. 2019 – Jan. 2020

- Wrote a server and client with UDP protocol by using MFC to transmit files (upload and download)
- Used socket programming to support multiple clients with loss re-transmission, timeout re-transmission, and congestion control

Fundamentals of Compiling, Nankai University

Sep. – Nov. 2019

- Used parse generator to write .yacc and .lex file using C++
- Wrote a basic compiler to simulate the six steps of compilers: Lex analysis, parse analysis, type checking, intermediate code generation, code optimization, code generation
- Used parse generator to generate .cpp file to run in VS to generate file in assembly language and with the end of .asm and use masn32 to generate .exe file

SKILLS AND WORKING EXPERIENCE

Languages: Mandarin (Native), English (Advanced)

Programming Skills: C/C++, Java, Python

Public Service: International Volunteer in Bali (Jan. 2020)

Instructing Experience: Advanced Mathematics Teacher Assistant (2018-2019)