YAN HAO

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EDUCATION

Shanghai Jiao Tong University, China — September 2016 - June 2020
ACM Class, Zhiyuan College
Bachelor of Engineering in Computer Science
Advisor: Professor Yong Yu and **Professor Cewu Lu**
Highlighted Courses to my Research: Physics(95/100), Advanced Algebra(94/100), Mathematical Analysis(92/100), Scientific Computing(90/100), Quantum Information(95/100), Operating System(92/100)
Standardized Tests: TOEFL: 97(L25,S22,R25,W25), CET-6: 590, CET-4: 654

RESEARCH INTEREST AND EXPERIENCE

Research Interest	**Computer Vison and Machine Learning**
Lab	**MVIG Lab, SJTU** — July 2018 - Current
Project	**3D Objectness**
Advisor	**Professor Cewu Lu**
Overview	It is an in-progress project to segment objects from **3D data** in **different scenes** with **no priori knowledge** based on **PointNet** structure.
Advantage	It can be directly applied to **Robotic** Manipulation(object grasping,etc). It can deal with **sheltered objects**.

AWARDS AND HONORS

Meritotious Winner in Mathematical(Interdisciplinary) Contest in Modeling(**(MCM/ICM)** — 2018
Xing Cai Honorary Scholarship, Shanghai Jiao Tong University — 2017
Zhiyuan Honorary Scholarship, Shanghai Jiao Tong University — 2016,2017,2018

COURSE PROJECT

2016 **Chinese Battle Chess AI:** Design a computer program that plays Chinese Battle Chess.

2017 **STL:** Write three data structures in C++: vector,map and deque which can be used in the same way as in STL.
Mips-simulator: C++ program that simulates five-stage pipeline to process MIPS instructions.

2018 **RISC-V CPU:** CPU simulator with five-stage pipeline, implemented in Verilog HD.
Text Classification: Create a classification model for recommending selected articles.
Item Recommendation: Construct a recommender system to predict the preference score of the given user on the specific items.
Compiler: Design a compiler in Java whose source language is simplified C and target language is MIPS assembly.
Visual Rhythm Prediction: Design a data-driven visual rhythm prediction method with teammates.

TECHNICAL STRENGTHS

Programming Languages: C++, Python, Java, MATLAB

TEACHING ASSISTANT EXPERIENCE

C++ Programming(CS152): Served as a teaching assistant, designed part of the homework and exam problems and helped students with their problems about homework.