Junqi **Liu**

Undergraduate of ACM Honor Class in SJTU

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Education

SJTU(Shanghai Jiao Tong University) *Sep. 2017 - Jun. 2021(expected)*

Bachelor of Science in Computer Science

- Member of ACM Honors Class, which is an elite CS program for top talented students. The transcript is attached after this resume.
- Result of last semester's courses cannot be found in the transcript. What should be mentioned is I got full score (100) in 'Computer Version' and 'Algorithm Design and Analysis'.
- Be good at coding courses and mathematics courses.
- Though grades of English course do not look very nice, there is no problem in daily communication.
- Courses with code 'TH' are Chinese politics courses.

Research Interests

Computer Version Human and Object Interaction(major), 3D Version(secondary), Robotics(interested)

Skills

Programming C, C++, Python, Java, Pascal, Verilog, Matlab, LaTeX
Frameworks PyTorch, TensorFlow
Languages Chinese(native language), English

Publications

Detailed 2D-3D Joint Representation for Human-Object Interaction *Accepted by CVPR 2020*

*Yong-Lu Li, Xinpeng Liu, Han Lu, Shiyi Wang, **Junqi Liu**, Jiefeng Li, Cewu Lu*

- Utilize single-view human body capture method to obtain detailed 3D body, face and hand shapes.
- Estimate the 3D object location and size with reference to the 2D human-object spatial configuration and object category priors.
- A joint learning framework and cross-modal consistency tasks are proposed to learn the joint HOI representation.

Submissions

Deep Video Audio Match Network *Accepted and waiting for publication by ICCTA 2020*

***Junqi Liu**, Lesheng Jin, Peiming Yang*

- Using our model to do a matching between soundless dancing video and our music library to make it harmonious.
- Music is a kind of data which has rich connotations and is in high dimension for it is very complicated.
- Use Multiple-frame Fully Connected layers and Gated Recurrent Units to learn more information from other frames.

Research Experience

Shanghai Jiao Tong University *Jun. 2019 - Present*

Undergraduate researcher at MVIG Lab, under the supervision of Prof. Cewu Lu

- Research topic: Human and Object Interaction.
- Worked on HOI detection based on the spatial relationship between human and object.

Honors & Awards

Scholarship

2018 **Zhiyuan Honorary Scholarship** *SJTU*
2018 **Best Leader Scholarship** *SJTU*
2017 **Zhiyuan Honorary Scholarship** *SJTU*

Program Competition

2015 **First Prize** National Olympiad in Informatics in Provinces *China*

Selected Projects

M* Compiler - A Compiler for M* Language (Link) *Jun. 2019*

Individual project

- A compiler implemented from scratch in Java. The source language is M*, which is a C-and-Java-like language.
- The compiler can not only compile M* code into NASM correctly, but also do optimization and has close performance as GCC O1.

Pint Operating System (Link) *Jun. 2019*

Group work project

- PintOS is an educational operating system for the x86. Pintos was developed for Stanford's CS 140 operating systems course as a successor to Nachos, a less realistic educational operating system.
- Implemented in C, four parts of the project are finished, including threads, user program, virtual memory and file system.

Reduced Instruction-Set Computer Central Processing Unit (Link) *Jan. 2019*

Individual project

- A toy RISC-V CPU with 5-stage pipeline, implemented in Verilog HDL.

Microprocessor without Interlocked Pipeline Stages Simulator (Link) *Jul. 2018*

Individual project

- A simulator of the five-stage pipeline to process MIPS instructions, implemented in C++.

Teaching Experience

(SJTU MS125) Principle and Practice of Computer Algorithms *Summer 2019*

Lead teaching assistant

- Designed and prepared a course project (a RISCV simulator) with other TAs, and taught related knowledge.
- Designed 3 rank-based opening questions for programming examinations.

(SJTU CS158) Data Structures *Spring 2019*

Lead teaching assistant

- Designed and prepared a course project (a simple B+ Tree), and taught related knowledge.
- Designed 8 data structure questions for programming examinations.
- Taught lots of data structures including sparse table, segment tree, least common ancestor, priority queue, etc.

(SJTU CS152) C++ Programming (B) *Autumn 2018*

Teaching assistant

- Designed 8 data structure questions for programming examinations.
- Taught lots of algorithms including search algorithm, dynamic programming, graph algorithms, etc.

上海交通大学 SHANGHAI JIAO TONG UNIVERSITY

RECORDS FOR UNDERGRADUATE

COLLEGE: School of Electronic Information and Electrical Engineering MAJOR: Computer Science and Technology(Zhiyuan Honors Program) CLASS: F1703016

STUID: 517030910409 NAME: Liu Junqi

ACADEMIC YEAR: 2017-2018

CODE	COURSES	SEMESTER	CREDIT	GRADECODE
CS037	Student Forum I	1	2	89
CS120	Introduction to Computer Science	1	4	88
CS152	Programming	1	5	87
EN062	College English II	1	3	67
MA146	Mathematical Analysis I	1	5	84
MA236	Linear Algebra	1	5	96
MS101	The Little Story Behind the Scientific Ideas I	1	1	89
PE001	Physical Education I	1	1	91
TH000	Cultivation of Ethics and Fundamentals of Law	1	3	87
TH020	Circumstance and Policy	1	0.5	B+
CS038	Student Forum II	2	2	84
CS147	Data Structure	2	4	95
EN063	College English III	2	3	72
MA123	Mathematical Analysis II	2	5	91
MS106	Programming Practice	2	3	95
MS123	The Little Story Behind the Scientific Ideas II	2	1	88
PE002	Physical Education II	2	1	82
PH111	Physics Laboratory I	2	1.5	85
PH114	Introduction to Physics	2	5	92
TH004	Military Theory	2	1	77
TH010	Military Training	2	3	P
TH020	Circumstance and Policy	2	0.5	78
TH021	Modern Chinese History	2	2	81

ACADEMIC YEAR: 2018-2019

CODE	COURSES	SEMESTER	CREDIT	GRADECODE
CS039	Student Forum III	1	2	84
EN064	College English IV	1	3	73
MA235	Introduction to Scientific Computation	1	3	87
MS108	Computer Architecture	1	4	90
PE003	Physical Education III	1	1	92
PH116	Introduction to Physics	1	5	88
PH117	Physics Laboratory II	1	1.5	81
TH020	Circumstance and Policy	1	0.5	75
TH029	Introduction to Mao Zedong's Thoughts and Theoretical System of Socialism with Chinese Characteristics	1	3	68
CS040	Student Forum IV	2	2.0	86
CS259	Numerical methods for machine learning and data science	2	2	87
CS389	Mathematics for the Information Age	2	2	93
CS420	Machine Learning	2	3	88
MS107	Probability	2	3	91
MS110	Operating System	2	4	93
MS208	Compiler Design and Implementation	2	3.0	90
PE004	Physical Education IV	2	1	83
TH007	Basic Theory of Marxism	2	3	62
TH020	Circumstance and Policy	2	0.5	B+

NOTE1-MARK"△"Means the Course Failed NOTE2-The sheet should be stamped to be offcial

Registrar: Registrar's Office,ShangHai Jiao Tong University http://jwc.sjtu.edu.cn 2019-12-13

锋吴印鉴

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