

JINGQI (MIA) ZHANG

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EDUCATION

SHANGHAI JIAO TONG UNIVERSITY, School of Electronic Information and Electrical Engineering
Bachelor of Engineering, Information Engineering Part of the classes in English; GPA: 3.53/4.0
UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley Global Access Program
All classes in English; GPA: 4.0/4.0

Shanghai, China
2015.09-now
Berkeley, U.S.
2018.08-2018.12

PART OF COURSE PROJECTS

MACHINE LEARNING APPLICATIONS

- Trained a BP neural network in Python with MNIST database (with and without frameworks respectively).
- Implementation of a convolutional neural-network for MNIST.
- Trained a RNN based on LSTM to realize automatic image captioning for COCO dataset.
- Trained Vanilla GAN, LS-GAN and DC-GAN to generate handwritten digits learning from MNIST.

DIGITAL COHERENT OPTICAL RECEIVERS: ALGORITHMS AND SUBSYSTEMS

- Realized a coherent simulator using symmetrized Split-step Fourier Method by MATLAB, applied Constant Modulus Algorithm and Radially Directed Equalizer respectively to 16QAM and optimized adaptive coefficient.

WIRELESS COMMUNICATION SYSTEM

- Designed and built a PLL-based FM circuit able to control remote LEDs with a Python applet.
- Realized the prototype design of a modem in LabVIEW and created simulation, implemented code using the NI-USRP to work it over a real wireless link and tested performance.

VARIABLE-GAIN AMPLIFIER CIRCUIT

- Designed and built amplifier circuit in which gain is controllable by microprocessor, and three modules of music playback, automatic gain adjustment and infrared remote control were extended.

ELECTROMAGNETIC FIELD AND MICROWAVE TECHNOLOGY LAB

- Carried out rectangular waveguide simulation in ANSYS HFSS and double-stub tuning with Smith Chart in Matlab.

DESIGNED AND BUILT A DC-DC SWITCHING CONSTANT CURRENT/CONSTANT VOLTAGE POWER SUPPLY

END TO END LATENCY MEASUREMENT IN A LOCAL AREA NETWORK

VIDEO ENCODING AND DECODING BASED ON HEVC AND H.264 FORMAT

ACADEMIC RESEARCH

INTELLIGENT INTERNET OF THINGS RESEARCH CENTER AT SJTU

Acemap Optimization Research Group (Available at www.acemap.info) Advisor: Prof. Xinbing Wang

- Developed a reference-based co-cited neighborhood recommendation system and multidimensional recommendation matrix for Acemap Academic Map System.
- Optimized front-end system designing, visualized knowledge graph of Infocom2018 with Gephi.

2016 SJTU INNOVATION AND TECHNOLOGY EXHIBITION Research Group Leader

- Led the research of <Application of Genetic Algorithm in Industrial Projects of Large-scale Calibration>.
- Won the Second Prize in the Innovation and Technology Exhibition held by SJTU; the project was published in the annual collection of SJTU Scientific and technological achievements.

ROBOTIC INSTITUTE AT SHANGHAI JIAO TONG UNIVERSITY Android Applications Developer

- Developed Android Application for the project <An Integrated Design of Electronic System Based on Android Development Platform>.

AIESEC ASIA-PACIFIC YOUTHSPEAK INTERNATIONAL FORUM OF POWER OF YOUTHS

Student Representative

- Attended AIESEC Asia-Pacific YouthSpeak International Forum and communicated with the representative from The United Nations Development Programme.

WORKING EXPERIENCE

CHINA MERCHANTS SECURITIES CO., LTD

Research Intern of Electronics Group (New Wealth Team) at Research Institute

- Assisted researchers to climb and organize data in security, LED, and semiconductor industry, and wrote industry analysis reports.
- Focused on key companies such as SMIC and Dahua, reported important announcements and performance briefings, and organized meeting minutes.

PRICEWATERHOUSECOOPERS CHINA Marketing & Communication Intern

- Supported 2018 Fosun C2M Intelligence Technology Summit, editing speech draft and presentation files for the Managing Partner.
- Planned the marketing approach and digital campaign for YouPlus Programme.

YAP&MIT ARTIFICIAL INTELLIGENCE CORPORATION Business Development & Strategy Intern

- Drafted and modified business plan, negotiated corporation with executives of more than 10 Artificial Intelligence enterprises including SenseTime, Tongdun, etc.
- Conducted Artificial Intelligence industry research, generated marketing and promotion strategy.
- Produced publicity materials, took charge of webpage designing and constructing.

HUAWEI TECHNOLOGIES CO., LTD. Offline Campaign Assistant & Special Guest

- Selected to be the cover person of Mate 9 offline marketing campaign '2017 Pursuit in Shanghai', shoot commercial for Huawei Mobile with New York Photography Community.

LEADERSHIP AND INVOLVEMENT

STUDENT UNION OF SHANGHAI JIAO TONG UNIVERSITY Minister of Publicity Department

- Schemed 13th SJTU Campus Push Intellectual Orientating Challenge.
- Directed Welcome Evening Party for SJTU Class of 2020 and 20th SJTU Oasis Music Festival.

STUDENT UNION OF SJTU SEIEE Minister of Public Relationship Department

- Organized Microsoft Research Asia AI Lecture on campus.
- Planned and hosted 2016 SJTU SEIEE Freshmen Cup Debate Contest.

SKILLS AND HOBBIES

- **LANGUAGE** CET4: 606, CET6: 592, TOEFL:100
- **PROGRAMMING SKILLS** C/C++, MATLAB, Python, MySQL, Java, Verilog, VHDL
- **DEEP LEARNING FRAMEWORKS** Tensorflow, Pytorch, Caffe
- **SOFTWARE PROFICIENCY** Microsoft Office Suite, CAD, LabView, Proteus, CCS, Adobe Photoshop, Keil uVision
- **COURSES TAKEN** DeepLearning.ai, CS231n, Machine learning, Data structure, Linear Algebra
- **ARTS & SPORTS** Over 10 years of study in professional painting and musical instrument performing
Member of SJTU SEIEE Women's Basketball Team, coach of SJTU Billiards Club