Zhikai HUANG

Curriculum Vitae

PERSONAL DETAILS

Birth	July 22, 1997
Address	Xi'an Jiaotong Univ, Xianning West Road, Xi'an, China
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Website	Xiahefan's Gallery

EDUCATION

B.E. expected Jun 2019, Electronics Engineering 2015 - now

Xi'an Jiaotong University, China (State Key Univ., Mumber of 985 & C9 League)

GPA: 89.25/100(*Transcript*) **Rank: ∼top 5%**

Relevant Courses: Analog IC Design, Digital IC Design, Semiconductor Devices, Signal and System, Feedback Control Theory, Computer Architecture, Electromagnetic Field and Wave

RESEARCH EXPERIENCE

Undergraduate Research Assistant Jun 2018-now

Sankey Lab, McGILL University, Canada, Full-time

Together with the Childress and Pioro-Ladrière groups, we are building toward a hybrid system in which nanoscale magnetic circuits controlled by spin transfer are coupled to the spins of quantum emitters in diamond (the state of which can be optically prepared and read out).

Undergraduate Research Assistant Feb-Jun 2018

Xi'an Jiaotong University, China, Part-time

Under the supervision of Prof. Ming YE, we put forward a novel, non-destructive way to measure the sheet-resistance of metal sheet with waveguide, which shows advantages compared to 4-probe technique.

Undergraduate Research Assistant Sep-Dec 2017

IAIR, Xi'an Jiaotong University, China, Part-time

Under the supervision of Prof. Longjun LIU, we implement neural networks based on numpy for specific applications,for example figure recognition on MNIST, experiments on ImageNet library. And learn hardware design principles to acclerate deep learning procedures on FPGA.

WORK EXPERIENCE/WORKSHOPS

Integrated Circuits Test Worker Summer 2017

XIGU Microelectronics Co.,Ltd, China, Full-time

I learn the data sheet of various integrated circuits, and use specific IC test equipment to measure the performance of ICs to make sure they work in right state. The work let me understand deeper with IC industry.

Workshop Taker for INCF 2018 Feb-Jun 2018

Virtual Brain NODE7 Workshop, Montreal Neurological Institute, Canada

In the workshop we will explain the fundamental principles of full brain network modeling using the open source neuroinformatics platform The Virtual Brain (TVB). This simulation environment enables the biologically realistic

Workshop Taker for MITACS Interns Apr-Jul 2018

MITACS Workshops for Professional Development, MITACS, Canada

Under the supervision of Prof. Longjun LIU, we put forward a alkjsd alsjdlka ldkjsa lkasj dlksajd lksajdksa d sauhd ,sa dlksa dlksajd daslij dla daslj

ONLINE COURSES

Understanding Research Methods Cousera.org

University of London, Certificate

In this course, I learn several fundamental questions about doing research, including the rise of a research question, how to do a good literature review, how to manage and plan the research and do the showcase. We discuss in the course forum with lectures and students from different countries and regions.

Writing in the Sciences Cousera.org

Stanford University, Course Notes

In this course, I learn a wide range of things, from punctuation to whole passages about scientific writing; I learn detailedly about drafting and publishing a scientific paper. Also learn how to write literature review, grants, personal statement, research plan, etc.

SELECTED HONORS/AWARDS

2018.04	Undergraduate Internship Scholarship, CSC & MITACS
2017.11	SAMSUNG Scholarship (5%), Samsung Inc.& XJTU
2017.10	Excellent Student Award (15%), XJTU
2017.04	Second Prize in Mathematics Modelling Contest
2016.12	Third Prize in Undergraduate Physics Tournament
2016.10	Siyuan Scholarship (20%), XJTU
2016.10	Excellent Student Award (15%), XJTU
2016.07	Full Scholarship for Summer Shool of SPbPU, Russia, SPbPU

STANDARD TEST SCORES

TOEFL	98 (R28, L21, S12, W24)
GRE	319 (Verbal159, Q21, Writing 3.5)

SKILLS

Test and measurement: Signal generators, oscilloscopes, spectrum analyzers, LabVIEW
Hardware description languages: Verilog
High-Level Languages: C, C++, Python
Algorithm development environments: MATLAB
Design automation tools: Quartus, Modelsim, HSpice, Multisim, Cadence
Others: HFSS, CST, LaTeX

Never too late to finish your dream; the life is waiting for you to explore.