Rui Zhang
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EDUCATION

Australia National University, Canberra, ACT, Australia	Jul. 2016 – Present

Master of Computing (Advanced), Artificial Intelligence — GPA: 6.875/7.0

Advisor: Marine-Andrei Rizoiu

– Core courses: Statistical Machine Learning, Document Analysis, Computer Vision, Algorithms, Research Project

Purdue University, West Lafayette, IN, US	Aug. 2015 – Dec. 2015

Exchange Student — GPA: 4.0/4.0

– Anticipated courses: Introduction To Discrete Mathematics, Numerical Analysis, International GEARE Project, Fundamentals Of Wind Energy

Shanghai Jiao Tong University, Shanghai, China	Sept. 2012 – Jul. 2016

Bachelor of Engineering, Mechanical Engineering — GPA: 3.7/4.3

Advisor: Chenkun Qi

– Core courses: Robotics, Theoretical Mechanics, Mathematical Methods in Physics, Probability and Statistics, Mechanics of Material, Engineering Thermodynamics, Engineering Fluid Mechanics, Heat Transfer

SKILLS

Programming Languages – C++, Python, Java, R, MATLAB, JavaScript

RESEARCH EXPERIENCE

Graduate Research Assistant, *Computational Media Lab (ANU)*	Jun. 2017 – Present

Advisor: Marine-Andrei Rizoiu (ANU)

Learning Non-parametric Triggering Kernels of Hawkes Point Processes

–*Point Process*: Using non-parametric models, including Neural Network and Gaussian Process, as the triggering kernel of Hawkes Point Process to improve its fitting capacity.

Graduate Research Assistant, *Computational Media Lab (ANU)*	Sept. 2016 – Present

Advisor: Marine-Andrei Rizoiu (ANU)

Uncovering Social Links through Stochastic Point Processes

–*Point Process*: Combine EM algorithm with Hawkes Point Processes to establish the probabilistic social network

Undergraduate Research Assistant, *Mechanism and Robotic Equipment Institute (SJTU)*	Aug. 2015 – Jun. 2016

Advisor: Chenkun Qi (SJTU)

Distortion Compensation for a Ground-based Semi-physical Simulation System for Space Collision

–*System Modelling and Simulation*: Model semi-physical simulation system and design compensation algorithm.

Undergraduate Research Assistant, *Biomechatronics and Biorobotics Laboratory(SJTU)*	Sept. 2014 – Apr. 2015

Advisor: Dingguo Zhang (SJTU)

Controlled a Cockroach to Move Right or Left by Microstimulation of its Antenna Nerves.

–*Bio-robot*: Use the existing chip to connect the human brain with a cockroach to control the motion of the latter

PROFESSIONAL EXPERIMENCE

Robot Motion Planning and Control Intern	Apr. 2015 – Aug. 2015

Mechanism and Robotic Equipment Institute (SJTU)

Did kinematic and dynamic analysis of four-legged robots and simulated their running gaits by MATLAB.

HONORS

Outstanding Graduate of Shanghai Jiao Tong University	2016
by Shanghai Jiao Tong University	
Dean's List & Semester Honors	2016
by *College of Engineering, Purdue*	
Excellent Undergraduate International Exchange Program Scholarship	2015
by *China Scholarship Council*	
Academic Excellence Scholarship (Second-Class) of Shanghai Jiao Tong University	2014
by *Shanghai Jiao Tong University*	
Academic Excellence Scholarship (Third-Class) of Shanghai Jiao Tong University	2013
by *Shanghai Jiao Tong University*	

PATENT

Rui Zhang; Fenghe Tang; Jianqiu Huang; Guilong Li; Yihan Fu. **Simple Waste Gel Ink Pen Refill Treatment Machine**, 2016, National Invention Patent. China Patent No. CN104325811B.