

Rui Zhang

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EDUCATION

Australian National University (ANU) & Data61 , Canberra, ACT, Australia	Jul. 2018 – Present
PhD of CS, Data Ming and Machine Learning	
<i>Advisor: Christian Walder, Marian-Andrei RizoIU & Lexing Xie</i>	
– Research Area: Hawkes Process, Gaussian Process, Kernel Methods, Instrumental Variable Regression	
ANU, Canberra, ACT, Australia	Jul. 2016 – Jun. 2018
Master of Computing (Advanced) , Artificial Intelligence	GPA: 6.875/7.0
<i>Advisor: Marian-Andrei RizoIU & Christian Walder</i>	
– 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
– Courses: Discrete Maths, Numerical Analysis, International GEARE Project, Fundamentals Of Wind Energy	
– Fully sponsored by China Scholarship Council (CSC)	
Shanghai Jiao Tong University (SJTU) , Shanghai, China	Sept. 2012 – Jul. 2016
Bachelor of Engineering , Mechanical Engineering	GPA: 3.7/4.3
<i>Advisor: Chenkun Qi</i>	
– Core courses: Robotics, Theoretical Mechanics, Mathematical Methods in Physics, Probability and Statistics, Mechanics of Material, Engineering Thermodynamics, Engineering Fluid Mechanics, Heat Transfer	
Zhejiang University , Hangzhou, Zhejiang, China	2014
Summer School	

RESEARCH EXPERIENCE

Graduate Research Intern , Empirical Inference Department (Max Planck Institute for Intelligent Systems)	Feb. 2020 – Jun. 2021
<i>Advisor: Krikamol Muandet & Bernhard Schölkopf</i>	
– Kernel maximum moment restriction for instrumental variable regression.	
Graduate Research Assistant , <i>Computational Media Lab (ANU)</i>	Jun. 2017 – Feb. 2020
<i>Advisor: Christian Walder, Marian-Andrei RizoIU & Lexing Xie</i>	
– Approximate Bayesian inference for Hawkes processes.	
Research Intern , <i>Mechanism and Robotic Equipment Institute (SJTU)</i>	Apr. 2015 – Aug. 2015
<i>Advisor: Chenkun Qi</i>	
– Kinematic and dynamic analysis of four-legged robots and simulation on MATLAB.	

HONORS

Data61 Top-up Scholarship (\$10000/Y)	2018
Data61 PhD Scholarship (\$27082/Y)	2018
HDR Fee Remission Scholarship	2018
Dean's Award, College of Engineering and Computer Science, ANU	2016
Outstanding Graduate, SJTU	2016
Dean's List & Semester Honors, College of Engineering, Purdue	2016
Excellent Undergraduate International Exchange Program Scholarship, CSC	2015
Academic Excellence Scholarship (Second-Class), SJTU	2014
Academic Excellence Scholarship (Third-Class), SJTU	2013
Ranked 4th in Independent Admission Exam (SJTU) in Xinjiang	2012

PATENT

Zhang, R.; Tang, F.; Huang, J.; Li, G.; Fu, Y., Gel Ink Pen Recycling Machine, 2016, National Invention Patent. China Patent No. CN104325811B.

PUBLICATION (available online)

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- **Zhang, R.**, Muandet, K., Schölkopf, B., and Imaizumi, M., Instrument Space Selection for Kernel Maximum Moment Restriction. Submitted to the Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS'21), Virtual, 2021.
 - **Zhang, R.**, Imaizumi, M., Schölkopf, B., and Muandet, K., Maximum Moment Restriction for Instrumental Variable Regression. Submitted to the Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS'21), Virtual, 2021.

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- **Zhang, R.**, Walder, C., Bonilla, E.V., Rizoïu, M. A., and Xie, L., Quantile Propagation for Wasserstein-Approximate Gaussian Processes. The Thirty-Fourth Conference on Neural Information Processing Systems (NeurIPS'20), Virtual, 2020.
 - **Zhang, R.**, Walder, C. and Rizoïu, M. A., Variational Inference for Sparse Gaussian Process Modulated Hawkes Process. The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI'20), New York, NY, USA, 2020.
 - **Zhang, R.**, Walder, C., Rizoïu, M. A., and Xie, L., Efficient Non-parametric Bayesian Hawkes Processes. International Joint Conference on Artificial Intelligence (IJCAI'19), Macao, China, 2019.
 - Rizoïu, M. A., Graham, T., **Zhang, R.**, Zhang, Y., Ackland, R., and Xie, L., #DEBATENIGHT: The Role and Influence of Socialbots on Twitter During the 1st U.S. Presidential Debate. International AAAI Conference on Web and Social Media (ICWSM'18), Stanford, CA, USA, 2018.

SKILLS

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