Jialin Lu

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Github: luxxxlucy

Education

2018 – 2021 **Simon Fraser University**
MSc Computing science
Research Area: Interpretability, Neuro-symbolic integration, Mixed discrete-continuous optimization.
Thesis Advisor: Martin Ester

2014 – 2018 **Zhejiang University**
BEng Computer Science
BEng Industrial Design (Special progarm with the International Design Institute)

Occupation

Huawei Canada (Vancouver Research Center)
part of the Huawei Data and Privacy Protection Technology Lab.
developing the next-generation adptive security engine.
more specifically, I am in charge of the gateway TCP/IP protocol stack.
extensively participate in software design, coding and debugging.
proactively refactor and participate in module refactoring.

Dec 2021 – Software Engineer (Senior Engineer B)
Jul–Dec 2021 Software Engineer (Associate Engineer)

Part-time

Teaching Assitant
Jan–Apr 2021 CMPT419/726 *Machine Learning*, with Dr. Ke Li, *Simon Fraser University*
May–Aug 2020 CMPT353 *Computational Data Science*, with Dr. Greg Baker, *Simon Fraser University*
Mar–Jun 2018 *Artificial Intelligence*, with Dr. Xi Li, *Zhejiang University*
Software Engineer
May–Aug 2018 *Zhejiang Fonda Technology* Co., Ltd, Hangzhou, China
Research Assitant
2019–2021 Martin Ester's lab, *Simon Fraser University*
Jun–Sep 2017 Graphics Group, with Dr. Li-yi Wei, *University of Hong Kong*
Sep–Dec 2016 StatNLP lab, with Dr. Lu Wei and Lin Shaowei, *Singapore University of Technology and Design*

Research

2021 **Interpretable drug response prediction using a knowledge-based neural network**
Oliver Snow, Hossein Sharifi Noghabi, *Jialin Lu*, Olga Zolotareva, Mark Lee, Martin Ester
KDD 2021

2020 **Neural Disjunctive Normal Form**
Jialin Lu
Master Thesis

2019 **Revisit Recurrent Attention Model from an Active Sampling Perspective**
Jialin Lu
NeurIPS 2019 Neuro↔AI Workshop

2019 **An Active Approach for Model Interpretation**
Jialin Lu, Martin Ester
NeurIPS 2019 workshop on Human-centric machine learning (HCML2019)

2019 **Checking Functional Modularity in DNN By Biclustering Task-specific Hidden Neurons**
Jialin Lu, Martin Ester
NeurIPS 2019 Neuro↔AI Workshop

Programming	Proficient	C, Rust, Python (in particular the machine learning tools)
	Intermediate	C++, Julia, Java, Web front end, iOS/Android

Blog/Writing/Misc

2021	**Gradient-based program induction**
2020	**On more interesting blocks with discrete parameters in deep learning**
2020	**Solving the TerpreT problem**
2020	**Mirror-Integration and Functional-Regularisation for better control of Deep Nets**
2020	**On Bayesian Deep Learning, an outsider's view**
2019	**Disentanglement of Hetergeneous Components: A Slightly Obsolete Attempt**
2019	**A Review of Failure - Deep Generative Model for Chinese Fonts**
2019	**On Randomness of "Nama Jashin" collection (simple math)**

Other

2019	**Graduate Fellowship**
	School of Computing Science, Simon Fraser Univesity
2017	**Excellent Completion**
	Student Researh Training Programme,Undergraduate Office
	Zhejiang Univesity
2016	**Scholarship**
	Leadership Enrichment and Regional Networking(LEaRN) Programme
	Temasek Foundation International, Singapore
2016	**Special Award on Public Responsibility**
	Mobile Application Innovation Contest of China Collegiate Computing Contest,
	Tsinghua Univesity and *Apple* Inc
2016	**Completion of**
	International Undergraduate ResearchOpportunities Programme (iUROP)
	Singapore University of Technology and Design

Last updated: Mar 2022