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.
Advisor: Martin Ester

2014 – 2018 **Zhejiang University**

BEng Computer Science
BEng Industrial Design (Special progarm with the International Design Institute)

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

Work in progress

2021 **Gradient-based program induction**

Occupation

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*

Programming

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

Blog/Writing/Misc

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

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