Jialin Lu

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Education

2018 – 2021 **Simon Fraser University**
MSc, Computing science
Research Area: Interpretability, Discrete Optimization, Neuro-symbolic Integration
Advisor: Martin Ester

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

Research

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

2019 **BDKANN – Biological Domain Knowledge-based Artificial Neural Network for drug response prediction**
Oliver Snow, Hossein Sharifi Noghabi, Jialin Lu, Olga Zolotareva, Mark Lee, Martin Ester
MLCB 2019

Occupation

Teaching Assitant
CMPT353 Computational Data Science, with Dr. Greg Baker, May. 2020 - Aug. 2020, Simon Fraser University
MPT419/726 Machine Learning, with Dr. Ke Li, Jan. 2021 - Apr. 2021, Simon Fraser University
Artificial Intelligence, with Dr. Xi Li, Mar. 2018 - June. 2018, Zhejiang University

Software Engineer
Zhejiang Fonda Technology Co., Ltd, Hangzhou, China, May. - Aug. 2018

Research Assitant
Martin Ester's lab, Simon Fraser University, 2018-2021
Graphics Group, with Dr. Li-yi Wei, University of Hong Kong, Jun. - Sep. 2017
StatNLP lab, with Dr. Lu Wei and Lin Shaowei, Singapore University of Technology and Design, Sep. - Dec. 2016

Programming

Currently: Python, Pytorch, Julia
Have developed in past: C++, Java
Sufficient Familarities: 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, sponsored by 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