JIN XING LIM

Ph.D. Candidate @ Singapore University of Technology and Design (SUTD)

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EDUCATION

Ph.D. in Engineering Systems and Design

Singapore University of Technology and Design

Sept 2018 - Aug 2022 (expected)

Advisors: Georgios Piliouras and Shaowei Lin

Thesis: A Blockchain-based Mechanism Design for Theorem Proving

B.Sc. in Mathematics

National University of Singapore

Aug 2010 - June 2014

Class: Second Class Honours (Upper) / Honours (Distinction)

Advisor: Yang Yue

Honours' Year Project: "Decidability of the First Order Theory of Boolean Algebra" by Tarski, A.

EXPERIENCE

Data Science Intern

Entend.ai

July 2019 - Sept 2019

Translate mathematical models for machine reasoning into software and to build applications based on the software

Lecturer

Temasek Polytechnic

July 2014 - Aug 2018

Subject leader and lecturer for the following courses: Mathematics for Applied Science - Statistics for Applied Science - Biostatistics - Scripting for Bioinformatics

PROJECT WORKS

Formalization of Divide-and-Conquer in Coq

Jin Xing Lim and Shaowei Lin

= 2021

Github

Game Theoretical Approaches in Multi-Agent Reinforcement Learning Policy Space Response Oracles

Jin Xing Lim and Sai Ganesh Nagarajan

2019

Github

Exploring Efficacy of Embeddings on Relation Network for Natural Language Question Answering Task

Jin Xing Lim, Zhangsheng Lai and Aik Beng Ng

2018

Github

PUBLICATIONS



- Lim, J. X., Monnot, B., Lin, S., & Piliouras, G. (2021). A Blockchain-Based Approach for Collaborative Formalization of Mathematics and Programs. In 2021 IEEE International Conference on Blockchain (Blockchain-2021), Virtual, Australia.
- Lim, J. X., Monnot, B., Piliouras, G., & Lin, S. (2021). (Auto)Complete this Proof: Decentralized Proof Generation via Smart Contracts. In Online proceedings of the 6th Conference on Artificial Intelligence and Theorem Proving (AITP 2021) (pp. 74–76). Aussois, France.

Journal Articles

- Lim, J. X., Li, B. T., & Ling, M. H. T. (2019). Sequence composition. In S. Ranganathan, M. Gribskov, K. Nakai, & C. Schönbach (Eds.), *Encyclopedia of bioinformatics and computational biology volume 3* (pp. 323–326). Elsevier.
- Lim, J. X., & Ling, M. H. T. (2019). Gene ontology and kegg orthology mappings for 10 strains of pseudomonas stutzeri. In *Ec proteomics and bioinformatics volume 3.1* (pp. 12–18). ECronicon.

Books

- Tan, H. M., Li, B., Lai, Z., Lim, J. X., & Chew, S. (2016). Mathematics for applied science. McGraw Hill Education.
- Tan, H. M., Li, B., Lai, Z., Lim, J. X., & Chew, S. (2015). Statistics for applied science. McGraw Hill Education.

HONOURS & AWARDS

Global Young Scientist Summit 2020

Singapore University of Design and Technology Ph.D. Fellowship (2018 - 2022)

PROGRAMMING SKILLS

Python, Coq

R, Erlang, Julia, Solidity

COURSES ATTENDED

Secureum Bootcamp Epoch 0

Rajeev Gopalakrishna

Ethereum Blockchain Developer Bootcamp With Solidity (2021)

Ravinder Deol, Thomas Wiesner and Martin Sterlicchi

Structural Equation Modelling Workshop Using Stata

Chan Yiong Huak

R Bioconductor Training for Bioinformatics

Alfred Ang

Biostatistics for Research (Advanced) Workshop

Chan Yiong Huak

Dec 2016

Singapore General Hospital Postgraduate Allied Health Institute

Biostatistics for Research (Basic/Int Chan Yiong Huak	ermediate) Workshop
iii Oct 2016	Singapore General Hospital Postgraduate Allied Health Institute
Data Analytics in Healthcare Course	e
■ Nov 2014	■ Gateway Consulting Singapore
AREAS OF INTEREST	
Blockchain: Blockchain applications - Form	nal verification of blockchain
Theorem Prover: Formalization and verific proof assistants	ation of mathematics, programs and protocols - Automated reasoning tools on
Others: Mathematical logic - Type theory	- Category theory - Program synthesis - Explainable AI
REFEREES	
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