Jino Lu

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EDUCATION

PhD Student in Strategy *Aug. 2018 - Present*
University of Southern California, Marshall School of Business – Los Angeles, CA
Committee: Florenta Teodoridis (Chair), Kyle Mayer, Milan Miric
Research interest: Economics of Innovation (Economics of Artificial Intelligence, Economics of Technology, Knowledge Spillovers)
Key coursework: Microeconomics I, Applied Econometrics, Econometrics of Program Evaluation, Strategic Management, Organizational Theory, Organizational Behavior, Quasi-Experimental Design Methods, Designing and Running Experiments

Master of Science, Business Analytics *May 2018*
University of Southern California, Marshall School of Business – Los Angeles, CA
Key coursework: Applied Modern Statistical Learning Methods, Data Mining, Applied Time Series Analysis for Forecasting, Monte Carlo Simulation and Decision Models, The Analytics Edge: Data, Models, and Effective

Bachelor of Economics, International Economics *Jun. 2016*
Jinan University – Guangzhou, China

RESEARCH PROJECTS

"Decision-Making Skills in an AI World: Lessons from Online Chess" (with Milan Miric and Florenta Teodoridis)
- Under review

"Measuring the Direction of Innovation: Frontier Tools in Unassisted Machine Learning" (with Florenta Teodoridis and Jeffrey Furman)
- Under review

"Innovation incentive and diversity of research lines"

CONFERENCES

Organization Science Winter Conference, Monterey, CA 2020
Panel Session: "AI and decision-making" [Cancelled Due to the Covid-19 Outbreak]
Strategic Management Society Conference, London, UK 2020
"Decision-Making Skills in an AI World: Lessons from Online Chess"

HORNORS AND AWARDS

USC Marshall School Fellowship 2018
Outstanding Graduate Award, Jinan University 2016
Outstanding Undergraduate Thesis Award, Jinan University 2016
Scholarship for Academic Excellence, Jinan University 2013-2016

ADDITIONAL

Ad-hoc reviewer for Academy of Management Conference 2019, 2020
Methodology: Econometrics, Machine Learning, Natural Language Processing, Neural Networks, Experimental Design
Technical Skills: Python, STATA, R, SQL, SAS, Spark, CFA level I

NON-ACADEMIC EXPERIENCE

Sony Pictures Entertainment – Culver City, CA *Spring 2018*
Data Scientist Intern
Bank of the West, BNP Paribas Group – San Francisco, CA *Summer 2017*
Quantitative Analyst Intern

As a data scientist at Sony Pictures and BNP Paribas, I built ML algorithms to predict KPIs including TV-series renewal and financial default rates. As a master's student studying data science, I further learned potential data-driven technologies hold for our future. These experiences triggered my research interests in exploring AI's impact on workers and organizations.

My research project, "Decision-Making Skills in an AI World: Lessons from Online Chess", with my advisors Milan Miric and Florenta Teodoridis, represents a first step towards this interest. The recent surge in AI technologies places a premium on decision-making skills as a complement to the technology. Yet, little is known about how decision-making skills are developed. Set in the context of online chess, we theorize and provide evidence of benefits of experience-intensity, diversity, and difficulty for developing high-quality decision-making skills, evaluated relative to the performance of a mature benchmark AI.

Further, my research project, "Measuring the Direction of Innovation: Frontier Tools in Unassisted Machine Learning", with Florenta Teodoridis and Jeffrey Furman, explores the application of machine learning techniques in innovation research. Research progress on understanding factors affecting the direction of innovation has been inhibited by difficulties in measuring the position of innovations in ideas space. We introduce an approach based on a frontier topic modeling algorithm-Hierarchical Dirichlet Process-that flexibly generates categories from text corpora and enables calculations of distance and movement in ideas space. We apply our algorithm to patent abstracts from 2000-2018 and demonstrate that, relative to the USPTO taxonomy of patent classes, our algorithm provides a leading indicator of shift in innovation topics and enables a more precise analysis of movement in ideas space.

I am excited at the opportunity to learn from scholars whose research inspired my research interests. I believe this experience would be immensely helpful as I work on my dissertation topic.