Weizhi LIU

#7-17, Blk E1, 1 Engineering Drive 2, Singapore 117576

☐ (+65) 9371-6374 | ✉ weizhiliu2009@gmail.com | 🏠 greenwicher.com | ☐ Greenwicher | ☐ weizhiliu

Education

National University of Singapore | Dept. of Industrial & Systems Engineering   *Singapore*

SIMULATION OPTIMIZATION, PH.D. CANDIDATE   *2014.08-Present*

- Research Topic：Optimal Computing Budget Allocation, Multi-objective Optimization via Simulation, Discrete Event Simulation.

Nanjing University | School of Management & Engineering   *Nanjing, China*

INDUSTRIAL ENGINEERING, B.ENG.；FINANCIAL ENGINEERING, B.EC.   *2010.09-2014.06*

- Core Modules: Operations Research, Operations Management, Supply Chain Management, Quality and Reliability Engineering, Engineering Economics, Management Information System; Principles of Economics, Financial Economics, Financial Engineering, Corporate Finance, Financial Risk Management, Modeling and Simulation of Financial System, Structured Finance, Fixed Income Securities, Econometrics, Financial Markets Microstructure.

Experience

PyPRS   *Singapore*

DESIGNER & DEVELOPER   *2016.03-Present*

- Proposed Partition-based Random Search (PRS) algorithm in Python to solve multi-objective optimization via simulation.
- Designed the architecture of the PRS algorithm, and the components and test problems of the algorithm are encapsulated based on the object-oriented paradigm.
- Adopted SWIG to integrate the core code written in C ++ with the Python main program to speed up the program's running efficiency.
- Visualized the process of algorithm for easy debugging and in-depth understanding.

Graduation Website for School of Engineering and Management, NJU   *Nanjing, China*

DESIGNER & DEVELOPER   *2014.05-2014.06*

- Designed the graduation website for our school based on Django, Bootstrap, and jQuery, and deployed the site to SinaAppEngine.

BiblioPy   *Nanjing, China*

DEVELOPER   *2014.04-2014.05*

- Proposed an algorithm in Python to discover the knowledge graph for a research field by the co-occurence and clustering methods.
- Implemented TF-IDF and TextRank to conduct the natural language processing analysis of the literature data.
- Developed automatic report generation tool via LaTeX and the visualization tool for Gephi.

Extracurricular Activity

Google Camp, Nanjing University   *Nanjing, China*

PRESIDENT   *2011.09-2012.09*

- Organized and hosted the seminar of the fifth "Caring for China" - the Google China Social Innovation Cup in Nanjing University.
- Invited technical experts to share their developing experience.
- Organized community members to visit Google Shanghai headquarters.

Student Research Training Program Club, Nanjing University   *Nanjing, China*

VICE PRESIDENT   *2011.07-2012.09*

- Organized and hosted the second and the third session of Nanjing University Innovation and Entrepreneurship Summit.
- Organized a series of academic seminars, the visit to Certusnet, Nanjing, and the 2011 Christmas Party of our club.

Honors & Awards

2017.03 **Level 5 (Finalist)**，Google FooBar Coding Challenge

2013.02 **INFORMS Paper Award (0.05%)**，The Mathematical Contest in Modeling

2013.02 **Outstanding Winner (0.2%)**，The Mathematical Contest in Modeling

2011.07 **Second Prize**，Google Summer Students Blog Sharing Competition (0.3%)

2011/2012 **Outstanding Volunteer**，The 4th, 5th "Caring for China" - the Google China Social Innovation Cup

2011.12 **Second Prize**，The 2nd Jin Wei Ning Logistics and Supply Chain Innovation Competition (5%)