STEVEN WANG

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GitHub: https://github.com/BaixiangGithub

EDUCATION

University of Michigan

Ann Arbor, MI

Master of Science in Quantitative Finance and Risk Management (STEM) | GPA 3.60/4.00 (expected) Expected 03/2019

University of Minnesota Twin Cities

Minneapolis, MN

Bachelor of Arts in Mathematics, Graduate with Honors | GPA 3.84/4.00

August 2017

Relevant Courses: Probability, Fourier Analysis, Partial Differential Equations, Programming in Python, Machine Learning.

Relevant Courses: Financial Mathematics, Stochastic Process, Stochastic Calculus, Numerical Methods, Linear Regression

- Dean's List, University of Minnesota Twin Cities (2014, 2016)
- Best project in "Classical Mechanics & Calculus of Variation", Penn State University (2015)

EXPERIENCE

Global AI, Inc.

New York, NY

Quantitative Strategy Intern

May 2018 – August 2018

- Modeled financial risk measures such as turbulence & absorption ratio for developing trading scores and conducting asset allocation (MATLAB); back-tested trading scores from turbulence index for choosing a suitable threshold that can be used in paper trading.
- Developed a bivariate Markov regime-switching model (machine learning) from scratch via MATLAB then plugged in GDP growth and inflation for conducting regime-based asset allocation; characterized local maximum region of the log-likelihood of the model, resulting in achieving a better economic intuition.
- Used Python to conduct two dynamic asset allocations based on one market timing signal (absorption ratio) and a regime-switching model on turbulence, achieving 52% and 88% increases in the Sharp ratios compared to static strategies.
- Reviewed assigned academic papers, and replicated pricing models from reinforcement-learning (Q-Learning) for portfolio construction (via Python).
- Back-tested the Q-Learning model on BS and GARCH processes (via Python).
- Extracted, filtered, & cleaned financial and macroeconomic data via Quandl & Yahoo Finance on a daily basis (in Python).

CyteTherapeutics, Inc.

Irvine, CA

Biostatistics Intern

January 2015-January 2017

- Performed biostatistical analysis of clinical outcome data from cord blood hematopoietic stem cell transplantation for thalassemia and other disease including HIV using R (see relevant publications).
- Performed clinical outcome data verification and analysis using Kaplan-Meier Product Estimates for survival, mortality curves, and relapse rate.
- Applied cumulative incidence, univariate, and multivariate analysis to search for variables that affect clinical outcome and compare methods of producing stem cells, using R.

Undergraduate Research Program 'MASS' at Pennsylvania State University

University Park, PA

Visiting Student Researcher

August 2015 – December 2015

- Used MATLAB to complete two computer-based independent projects on lie theory and classical mechanics; and gave presentations at the end of the semester.
- Improved my interpersonal skills by joining in discussions on weekly colloquia sponsored by invited mathematicians.

SKILLS

Skills: Machine Learning, Computational Data Science, Python (Intermediate), R (Intermediate), Matlab, SQL, C++ (Entry level), Reinforcement Learning, Risk Management, Financial Modeling, Deep Learning.

Languages: Bilingual (Mandarin & English)

PUBLICATIONS

- 1. Chow, R., Li, Q., Chow, C., Guo, V., Dang, T., Rao, A., Zeng, T., Chow, D.T.L., **Wang, B.**, and Chow, M., "Cord Blood Stem Cell Processing, Banking and Thawing" in *Umbilical Cord Blood* Ed. Maurício, Ana Colette, Intech Publishers, Rijeka, Croatia, 2016 (Chapter In Press).
- 2. Chow, C., Dang, T., Guo, V., Chow, M., Li, Q., Chow, D.T.L., Rao, E., Zeng, T., **Wang, B.**, and Chow, R. "Optimization of Unrelated Donor Cord Blood Transplantation for Thalassemia Implications for other Non-Malignant Indications such as HIV Infection or Autoimmune Disease", in Umbilical Cord Ed. Maurício, Ana Colette, Intech Publishers, Rijeka, Croatia, 2016 (Chapter In Press).