MINSU YEOM, CFA, FRM

629 W 115th St, New York, NY 10025 I (202) 621-4497

www.linkedin.com/in/msyeom I github.com/my2582 I my2582@columbia.edu

EDUCATION

COLUMBIA UNIVERSITY, DATA SCIENCE INSTITUTE

New York, NY

M.S. in Data Science (GPA 3.5/4.0)

December 2019 (Expected)

Coursework: Machine Learning (ML), Reinforcement Learning, Deep Learning, NLP, Algorithms, Statistical Inference, Probabilistic Programming (Bayesian ML), Visualization, Capstone. Research Interest: Variational Inference

KOREA UNIVERSITY, COLLEGE OF INFORMATICS

Seoul, KR

B.S. in Computer Science and Engineering (GPA 4.1/4.5)

August 2006

PROFESSIONAL EXPERIENCE

KOREA INVESTMENT MANAGEMENT

Seoul, KR

Portfolio Manager

March 2013 - July 2018

- Ranked #1 out of 5 institutional peers. Managed portfolios comprised of ETFs since 2014; outperformed a benchmark by 4% with an IR of 2, annualized, as a senior PM of a 5-person team. AUM grown up over time to US\$ 1+ billion
- Built a quantitative model (DM/EM allocation) and conducted a macro and fundamental analysis to generate alpha
- Carried out a time-series analysis statistically reliably (investment cycle indicator) github.com/my2582/macro
- Managed SMA by delegating PM roles to 10+ sub-managers globally. Chose them through an RFP process.

Risk Manager

January 2010 - February 2013

- Analyzed portfolios' ex-ante risk through the lens of multi-factor models provided by BarraOne and Bloomberg PORT
- Evaluated portfolio performances using Brinson and factor-based attribution, covering equity funds and hedge funds.
- github.com/my2582/rms Wrote risk management modules (volatility decomposition), developed it, and adapted
- Conducted due-diligence on nine hedge fund managers in New York

github.com/my2582/dd

OPERATIONS COMMAND, REPUBLIC OF KOREA AIR FORCE

Osan, KR

Software Developer, 1st Lieutenant

January 2007 - December 2009

 Developed web applications running on Struts framework for Command and Control System my2582.github.io/rokaf

RESEARCH EXPERIENCE

AN APPLICATION OF A RECOMMENDATION SYSTEM IN STOCK MARKET

Columbia

July 2019 - Present

 Estimating a distribution over distributions to model occurrences of outperforming stocks. Provides a flexible way of modeling stocks both entirely and individually and a way of adding new features. Supervised by Kriste Krstovski at CBS

GEOPOLITICAL EVENTS PROBABILITIES

Columbia

February 2019 - May 2019

 Developed a dashboard using Bokeh with consolidating and verifying existing works to predict the GBPUSD rate by applying NLP to unstructured data. Supervised by professor Eugene Neduv at IEOR github.com/my2582/gep

COURSE PROJECTS

BUILDING AN FX TRADING MODEL USING DEEP LEARNING

Columbia

Columbia

September 2019 - Present

· Building a trading agent taking an advantage of learning different schemes on different information such as bars

ALGORITHMIC COMMENTS PROCESSING

Columbia

January 2019 - May 2019 github.com/my2582/KPMGCapstone

Used NLP to automate sectioning PDFs by applying XGBoost

January 2019 - May 2019

FORECASTING P/E RATIOS IN SMALL-CAP TECH SECTOR

Built an RNN to forecast forward P/E using TensorFlow. Inputs are from I/S or B/S github.com/my2582/predicting-per

ADVERSARIAL REINFORCEMENT LEARNING IN PORTFOLIO MANAGEMENT Columbia

Simulated competing investment strategies through continuous refinement in a virtual stock market setting. The

September 2018 - December 2018

strategies adjusted weights to different stocks over time to maximize profits github.com/my2582/Adversarial-RL

CREDENTIALS AND SKILLS

Credentials: Chartered Financial Analyst (CFA), August 2016; CAIA, October 2012; FRM, April 2009

Programming skills: Python, C/C++, Java, D3. Bokeh, PyTorch, Pyro, OpenAl Gym, SQL Statistical S/W: R, EViews