

YOUNGMIN HA

New Jersey City University, Harborside 2, 200 Hudson St • Jersey City, NJ 07311
yha@njcu.edu • (201) 200-2404

EXPERIENCE	NEW JERSEY CITY UNIVERSITY	Jersey City, NJ
2019-Present	Assistant Professor of Finance <ul style="list-style-type: none">Teaching courses of financial literacy, cryptocurrency, machine learning, math, and Python	
2019	SMARTFORECAST Quantitative Researcher <ul style="list-style-type: none">Developed algorithmic trading strategies of arbitrage between dual-listed cryptocurrenciesDeveloped market making strategies in cryptocurrency markets using Python	Seoul, South Korea
2018	ALGORythMA Quantitative Researcher <ul style="list-style-type: none">Developed backtesting methods for assessing performance of mean-variance portfoliosConducted alpha research within UAE equities using Python and SQLConstructed and updated database of stock prices and financial statements using Thomson Reuters Eikon, Python, and SQL	Abu Dhabi, United Arab Emirates
2016-2018	SMARTFORECAST Quantitative Researcher <ul style="list-style-type: none">Predicted weekly stock returns for asset allocation using Octave, PHP, and SQLConducted alpha research within Korea and Hong Kong equities, utilizing large data setsRebalanced portfolio by considering bid-ask spread and proportional transaction costs	Seoul, South Korea
2013	FNPRICING Quantitative Analyst <ul style="list-style-type: none">Implemented quadrature method of Hull-White one-factor model to price single and dual range accrual notes using MATLAB and SQLConverted combined rate curve of deposit and interest rate swap into spot rateImplemented Monte-Carlo method of multi-dimensional geometric Brownian motion to price multi-asset step-down derivative-linked securities using MATLAB and SQL	Seoul, South Korea
2008-2011	AGENCY FOR DEFENSE DEVELOPMENT Researcher <ul style="list-style-type: none">Conducted computer simulations using interactions among MATLAB, C++, and Simulink to reduce development time of visual tracking module in F-16 reconnaissance pod systemAnalyzed data stream among three subsystems to find data corruption using MATLAB and C++; discovered error and presented information to project managerAnalyzed compressed images in terms of image quality using MATLAB, and optimized JPEG 2000 image compression parameters	Daejeon, South Korea
EDUCATION	UNIVERSITY OF GLASGOW Adam Smith Business School PhD in Quantitative Finance, November 2017 <ul style="list-style-type: none">Research areas: online portfolio selection, algorithmic tradingPhD thesis: machine learning in quantitative finance (http://theses.gla.ac.uk/8558/)	Glasgow, Scotland
	UNIVERSITY OF MICHIGAN Master of Science in Financial Engineering, December 2012	Ann Arbor, MI
	POHANG UNIVERSITY OF SCIENCE AND TECHNOLOGY Master of Science in Electronic and Electrical Engineering, February 2008 <ul style="list-style-type: none">Research areas: computer vision, artificial intelligenceMaster thesis: depth estimation from a single image in real-time	Pohang, South Korea
	SOONGSIL UNIVERSITY Bachelor of Engineering in Electronic Engineering, February 2006	Seoul, South Korea
ADDITIONAL	<ul style="list-style-type: none">Youngmin Ha and Hai Zhang, Algorithmic trading for online portfolio selection under limited market liquidity. <i>European Journal of Operational Research</i>, 2020 https://doi.org/10.1016/j.ejor.2020.03.050Youngmin Ha and Hai Zhang, Fast multi-output relevance vector regression. <i>Economic Modelling</i>, 2019 https://doi.org/10.1016/j.econmod.2019.04.007	