SHIH-SHENG CHANG

EDUCATION MSc Candidate, Quantitative Economics Current ♥ Kiel, Germany Christian-Albrechts-Universität zu Kiel 2019 · Provisional Grade: 1.3 in German scale · Focused on statistics, econometrics, and statistical learning 2021 MSc, Quantitative Finance ♥ Kiel, Germany Christian-Albrechts-Universität zu Kiel 2018 · Overall Grade: 1.6 in German scale · Thesis: Multi-Asset Option Pricing under the Bates Model · Focused on derivative pricing, risk management, and financial engineering **BSc**, Quantitative Finance (minor Economics) 2018 • Hsinchu, Taiwan National Tsing Hua University 2015 · Overall GPA: 4.22/4.3 (equivalent to 1.0 in German scale) 2015 Study in Mathematics ▼ Taoyuan, Taiwan National Central University 2014 · Overall Average: 83/100

CONTACT

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 - Deutschland
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LANGUAGE SKILLS

R
Matlab
Stata
Python

English (business fluent)

German (Bl.I)

Chinese, Mandarin (native)

RESEARCH EXPERIENCE

2018 | 2017

Student Research Assistant

Chair Prof. Dr. Ching-Fan Chung's Lab National Tsing Hua University

- Cleaned and analyzed large data sets with Excel and R using data mining methods to construct statistical models
- Developed econometric models to quantify the economic factors in global stock and bond markets
- Mainly related to Receiver Operating Characteristic analysis, variable ordinalization, logistic regression, stepwise regression, credit scoring, and model assessment

"I was simply amazed by how he raised quite a few essential questions and solved them with and sometimes without his teammates' help." — Supervisor



INDUSTRY EXPERIENCE

2018 2017

Research Assistant Intern

Eastspring Investments, Asset Management Company of Prudential plc (UK),

• Taipei, Taiwan

- · Industry-University Cooperative Research Project with Prof. Dr. Ching-Fan Chung's Lab
- · Analyzed strategies of quantitative global asset allocation to assist investment decision and product development
- · Built R Shiny dashboards to visualize the model performance and backtesting results

"His logical and cordial manner greatly speed the project progress, since he could mitigate the gap of different parties' opinions by creative ideas accompanied with satisfactory statistical results." — Supervisor

A HONOR AWARDS

2018 2015

Academic Achievement Award

~ 300 EUR

National Tsing Hua University

- · Five times awarded
- · Top 5% of the class in the semester

2015 2014

Academic Achievement Award

- ~ 150 EUR
- Top 5% of the class in the semester
- **♀** National Central University

WORKS ON GITHUB

2021 2021

Multi-Step-Ahead Analytic Moments of Mixed Normal GARCH(1,1)

- · Codes of the multi-step-ahead analytic moments of Mixed Normal GARCH(1,1) model derived by Haas (2019)
- · Applied to the method of Alexander et al. (2013) for computing multistep-ahead risk estimates

2021 2020

Bates Multi-Asset Quadratic Exponential (MQE) Scheme

- Extended the Heston MQE scheme proposed by de Innocentis et al. (2016) to the Bates (1996) stochastic-volatility jump-diffusion model
- · Along with applications of multi-asset option pricing