

# Guanyu Chen

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## EDUCATION

- ◆ **University of Michigan** Ann Arbor, MI  
*Master of Science in Quantitative Finance and Risk Management* 09/2018-12/2019
- ◇ **Cumulative GPA:** /4.00
- ◇ **Core Courses:** Numerical Methods with Financial Applications; Discrete State Stochastic Processes; Applied Statistics
- ◆ **Xiamen University (XMU)** Xiamen, China  
*Bachelor of Sciences in Mathematics and Applied Mathematics* 09/2014-06/2018
- ◇ **Cumulative GPA:** 3.38/4.00
- ◇ **Core Courses:** Modeling and Analysis; Financial Mathematics; Statistics; Computational Method; Economics

## RESEARCH EXPERIENCE

- ◆ **Team Leader, National College Student Innovation Program** Xiamen, China  
*Advisor: Professor Yunxia Liu* 07/2016-07/2017
- ◇ Reviewed literature including coupling relationship between economic growth and environmental pollution in Shanxi Province, and collected data from China's economic sustainable development database, provincial statistical yearbook, China city statistical yearbook
- ◇ Utilized PCA method to process 12 different kinds of statistical data of 258 Chinese regional units in SPSS to determine coupling degree evaluation index systems
- ◇ Calculated coupling degrees and coordination degrees of economics, population and environment of regional units in R and classified spatial patterns using MATLAB
- ◇ Researched general characteristics in regions with different degrees; summarized representative city's problems; proposed suitable suggestions and plans
- ◆ **Participant, MCM/COMAP** Xiamen, China  
*Advisor: Professor Zhong Tan and Professor Zhongxin Zhang* 07/2016-01/2017
- ◇ Completed 2-week training courses on LaTeX and MATLAB, random system modeling, academic thesis-writing format, comprehensive case analysis training to prepare for the qualification match
- ◇ Established a modified traffic flow model for self-driving cars using MATLAB and wrote thesis in MCM
- ◇ Determined a mechanical model and built a dynamic programming model in COMAP and obtained globally optimal solution by Lingo and multi-objective genetic algorithm

## INTERNSHIP EXPERIENCE

- ◆ **Intern, Manulife Financial (Hong Kong International Elite Program)** Hong Kong, China
- ◇ Formulated business plan for Manulife's development in Mainland China; made presentation and wrote an analysis report with 15,000 words 01/2016-02/2016
- ◇ Constructed fund and stock portfolio and developed investment plan as part of competition under guidance of experienced investment professionals
- ◆ **Intern, Founder Securities** Beijing, China
- ◇ Assisted in analyzing data and writing industry reports 06/2014-09/2014
- ◇ Participated in projects including research on industry strategies of the USA, Taiwan and Japan under the period with a low economic growth

## ADDITIONAL SKILLS

**Computer Skills:** SPSS, MATLAB, Eviews, R Language