Meng Xu

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Profile

- Solid statistical background with demonstrated analytical and quantitative skills;
- Expertise in programming languages mainly in R and MATLAB;
- 5+ years of experience in statistical modelling, inference and complex data analysis;
- Data analyst/researcher with excellent communication, strong team skills and passion for challenges.

Computer: R, MATLAB, LaTeX, Ubuntu, SPSS, SAS, C

Core Quant Skills: Functional Data Analysis, Multivariate Regression, Panel Data Analysis, Hypothesis Testing, Semi/Non-parametric Regression, Bootstrap, Cross Validation, Backfitting, CVaR/VaR, Parallel Computing, etc.

Professional Experience

10/2018 – present, Postdoctoral Fellow, Department of Statistics, University of Haifa, Israel Mentor: Philip Tzvi Reiss

Current projects: Evaluation and measures on data reliability; hypothesis test of difference on distributions; analysis and modeling on fMRI, fNIRs and behavioral data

- 10/2016 08/2017, Visiting Ph.D. Researcher, University of Granada, Spain Supervised by Jose Miguel Angulo; Sponsor: Erasmus +
- 10/2014 10/2015, Joint Ph.D. Trainee, National University of Singapore Supervised by Jialiang Li; Sponsor: China Scholarship Council
- 04/2014 10/2014, Visiting Ph.D. Trainee, University of Göttingen, Germany Supervised by Helmut Herwartz; Sponsor: Erasmus Mundus Action 2

Education

2018, Doctor of Economics in Statistics, Sichuan University, China

Dissertation: Study on the Factors of Asset Price via Functional Data Analysis.

Degree conferred on Sep. 25, 2019

2013, Graduate study (M.A level) in Finance, Sichuan University, China

2011, B.S. in Mathematics, Sichuan University, China

Publication

Meng Xu, Philip Reiss, Ivor Cribben. (2020) Generalized reliability based on distances. Biometrics. Major revision.

Philip Reiss, Meng Xu. (2020) Tensor product splines and functional principal components. *Journal of Statistical Planning and Inference*. Accepted. [Link]

Meng Xu., Jose M. Angulo. (2019) Divergence-based risk measures: a discussion on the sensitivities and extensions. *Entropy*. [doi]

Meng Xu, Jialiang Li, Ying Chen. (2017). Varying coefficient functional autoregressive model with application to the U.S. treasuries. *Journal of Multivariate Analysis*. [doi]

Meng Xu, Zhuyu Li, Taiji Wang. (2012). Study on the comparative analysis of the FDLR model and its nonlinear improvement in the interval finance yield series. *Soft Science*, in Chinese with English abstract. [doi]

Meng Xu, Tiande Li. (2012). Study on the semi-parametric models for Engel Curve of traffic and communication. *Statistics and Decision*, in Chinese with English abstract. [doi]

Meng Xu et. al. (2010) A new optimization model for simulation robot collision behaviors. *Journal of Harbin Institute of Technology (New Series)*. [EID]

R-package: dbicc, DVDtest (https://github.com/wtagr)

Conference

(Pres.) Generalized reliability based on distances. UH-UCY (University of Cyprus) Workshop in Statistics, Haifa, Israel. Nov. 12, 2019.

(Contributed Pres.) Generalized test-retest-reliability based on distances. Annual Meeting of the Israel Statistical Association. Bar-Ilan University, Israel. June 6, 2019.

(Contributed Pres.) Divergence-based Risk Measures: A Discussion on the Sensitivities and Extensions. Jerusalem Joint Statistical Event 2018: 10th Conference of the Eastern Mediterranean Region of the International Biometrics Society (EMR -- IBS). Jerusalem, Israel. Dec. 17 – 20, 2018

(Contributed Pres.) Divergence-based Risk Measures: A Discussion on the Sensitivities and Extensions. Joint Statistical Meetings, Vancouver, Canada. Jul. 28 – Aug. 2, 2018

(Poster) Time-Varying Coefficient Functional Autoregressive Model and its application to U.S. Treasuries. Asian Regional Section of the International Association for Statistical Computing ARS-IASC Conference. Singapore. Dec 17-19,2015

Other Professional Experience

10/2017 – 06/2018, R.A., Business School, Sichuan University, China

Participant in General Project Air Pollution and Tourism: Sustainable development of Tourism based on the System of Air Pollution-Tourism-Economic Model, sponsored by NNSFC (PI: Ying Li, No.71773082, Jan.2018-Dec.2021)

- Participated in completing the application declaration
- Constructed the statistical model (Time Varying Spatial Autoregressive Model; TV-SAR) for considering the interactions of cities and other factors on the tourism industry

10/2011 – 06/2018, R.A., School of Economics, Sichuan University, China

Participant in a series of national or provincial level of academic projects and governmental/enterprise programs hosted by supervisor Tiande Li or other professors in the research team.

- Developed the Early-warning assessment Model, participating in Key Project Overseas Petroleum Resources Replacement Strategy based on the Perspective of Chinese Petroleum Security, sponsored by NSSFC, Jan.2012-present
- Application of risk models, participating in the enterprise consulting project *A Systematically Financing Plan* for Mineral Resources of Tibet, sponsored by China Development Bank, 2013
- Reviewed works on the housing price model, participating in the project *Study on the Formation and Transmission Mechanism of Bubbles in the Housing Market----based on the OLG Model*, sponsored by Committee of Researched on the Generalized Virtual Economy, China, Sept.2012-Sept.2013
- Data collection & analysis in R, and writing organizer, in the project *Program on the Contemporary Situation, Problems and Advice of Housing market for Sichuan Province*, Apr.2012-Jun.2012
- Modified and rechecked the model, for Prof. Tiande Li's book *The Theory of Global Economical Fluctuation* (*Global Economic Cyclical and Non-cyclical Fluctuations and the Construction of the Warning Mechanism of China's Economy*, Major Project of NSSFC), Oct.2011-Aug.2012

09/2011, R.A., School of Mathematics, Sichuan University, China

Participant in the project on the experiment of multicultural decisive behaviors between German and Chinese students, collaborated with University of Bonn, Germany; Advisor: Prof. Zhuyu Li

• Data analysis of fuzzy survey in R and SPSS

Intern & Volunteer

Examiner Member. Evaluation Committee of China Scholarship Council in Israel. 2019

Stipend Assistant, Centre for European Studies, Sichuan University. 2011 – 2012 & 2015 – 2016

Summer Intern (Lobby Manager), Bank of China, Chengdu. Aug. 2012

Founder & President, Mathematics Fan Association of Sichuan University. 2009 – 2010

Award

National Scholarship for Graduate Students issued by the Ministry of Education, P.R. China, 2012 & 2013