Yang Long

Department of Statistics, George Mason University

🛂 ylong5@gmu.edu 📞 202-468-4180 🔏 ylong-chn.github.io

EDUCATION

PhD in Statistical Science, George Mason University, Fairfax, VA

Exp. May 2026

- · Advisors: Dr. David Kepplinger and Dr. Lily Wang
- · Topic: Robust methods for high-dimensional regression and imaging data analysis

MS in Statistics, CUNY-Baruch College, New York, NY

May 2019

MS in Finance, University of Rochester, Rochester, NY

Dec 2015

BEcon in Finance, Zhongnan University of Economics and Law, Wuhan, China

Jun 2014

RESEARCH INTERESTS _

- Robust nonparametric statistics
- Multispectral imaging analysis
- Functional data analysis

- Distributed learning methods
- Non-convex optimization
- Time series analysis

PUBLICATIONS

Under Review

1. Y. Long, G. Cao, D. Kepplinger, and L. Wang, "Robust mean signal estimation and inference for imaging data," Submitted to Statistica Sinica, 2024+

Published

- 2. Z. Li, S. Bruce, C.J. Wutzke, and Y. Long, "Conditional adaptive Bayesian spectral analysis of replicated multivariate time series," Statistics in Medicine, vol. 40, pp. 1989 - 2005, 2021.
- 3. D. Feldman, S. Gross, and Y. Long, "Gender competitiveness and predictability, and prize money in Grand Slam tennis tournaments," Quarterly Journal of Finance, vol. 10, No. 2, 2020.

Working Paper

- 4. Y. Long, G. Wang, Z. Gu, D. Kepplinger, and L. Wang, "Robust distributed image-on-scalar regression for spherical surface data," In preparation, 2025
- 5. Y. Long, D. Hanley, and D. Kepplinger, "Illuminant spectrum estimation and inference to study animal coloration from multispectral camera images," In preparation, 2025

PRESENTATIONS AND ACTIVITIES

1. Invited Talk. EcoSta 2025. Virtual Robust distributed image-on-scalar regression for spherical surface data Aug 2025

2. Contributed Talk, Joint Statistical Meetings, Nashville, TN Robust distributed image-on-scalar regression for spherical surface data Aug 2025

February 25, 2025 Page 1/3

3	. Invited Talk, ICSA Applied Statistics Symposium, <i>Storrs, CT</i> Robust distributed image-on-scalar regression for spherical surface data	Jun 2025
4	. Invited Talk, StatConnect 2025, <i>Fairfax, VA</i> Robust learning and inference for mean functions in functional data analysis of imaging data	Mar 2025
5	. Contributed Talk, Joint Statistical Meetings, <i>Portland, OR</i> Illuminant spectrum estimation to study animal coloration from multispectral camera images	Aug 2024
6	. Invited Talk, ICORS meets DSSV 2024, <i>Fairfax, VA</i> Robust learning and inference for mean functions in functional data analysis of imaging data	Jul 2024
7	Contributed Poster, The Conference on Evolving Statistical Data Science, Fairfax, VA Accelerated Algorithms for Elastic Net S-Estimators	Mar 2023

HONORS & AWARDS _

Graduate Student Travel Fund, George Mason University
 Academic Excellence Scholarship in MS Statistics (one recipient annually), Baruch College
 Jul 2024

Merit-Based Scholarship, Simon Business School, University of Rochester
 Jul 2014

RESEARCH EXPERIENCE

Graduate Research Assistant, George Mason University, Farifax, VA

Aug 2021 - Present

- · Develop distributed robust estimation and simultaneous inference methods for biomedical imaging data
- · Construct a spectral irradiance estimation and inference pipeline using multi-spectral camera images
- Build efficient non-convex optimization algorithms for computing robust penalized elastic-net estimators

Graduate Assistant, Statistical Consulting Laboratory, Baruch College, *New York, NY* Aug 2017 – 1

- · Assisted in statistical model development for faculty-led research projects in finance and marketing analytics
- · Consulted business school faculty and graduate students on data visualization and statistical software

TEACHING EXPERIENCE _____

Teaching Assistant

· STAT 250: Introductory Statistics I, George Mason University

Spring 2021

· STA 2000: Business Statistics I, Baruch College

Fall 2017, Spring 2018

· STA 3154: Business Statistics II, Baruch College

Fall 2017, Fall 2018

· STA 9719: Foundations of Statistical Inference (Graduate), Baruch College

Spring 2018

PROFESSIONAL EXPERIENCE _____

Summer Associate (Data Scientist), Navy Federal Credit Union, Vienna, VA

May 2024 - Aug 2024

· Enhanced credit card probability of default logistic regression models for the CECL quantitative modeling team

Quantitative Analyst Intern, Truist Bank, Charlotte, NC

Jun 2023 - Aug 2023

• Developed a machine learning framework with SAS and Python for suspicious transaction monitoring

Quantitative Research Associate, Terrapin Asset Management, LLC, New York, NY

Oct 2015 - Jul 2017

Performed empirical data analysis on hedge fund activism to validate and enhance a new hedge fund strategy

February 25, 2025 Page 2/3

SERVICES & LEADERSHIP _

Journal Referee

- · Journal of Nonparametric Statistics
- TEST
- · Statistical Analysis and Data Mining
- · Journal of Applied Statistics: Environmental Statistics and Data Science

Volunteer

ICORS meets DSSV 2024, Fairfax, VA
 IMS Meeting of New Researchers in Statistics and Probability, Fairfax, VA
 SC21 (ACM/IEEE Supercomputing Conference), St. Louis, MO
 Nov 2021

University

President/Vice President, Statistics Graduate Student Association (SGSA) of GMU
 PhD Representative, Graduate and Professional Student Association (GAPSA) of GMU
 Aug 2021 – May 2023

February 25, 2025 Page 3/3