Yang Long

Department of Statistics, George Mason University

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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*   Aug 2025
   Robust distributed image-on-scalar regression for spherical surface data

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

3. **Invited Talk,** ICSA Applied Statistics Symposium, *Storrs, CT*   Jun 2025
   Robust distributed image-on-scalar regression for spherical surface data

4. **Student Presentation,** StatConnect 2025, *Fairfax, VA*   Mar 2025
   Robust learning and inference for mean functions in functional data analysis of imaging data

5. **Contributed Talk,** Joint Statistical Meetings, *Portland, OR*   Aug 2024
   Illuminant spectrum estimation to study animal coloration from multispectral camera images

6. **Contributed Talk,** ICORS meets DSSV 2024, *Fairfax, VA*   Jul 2024
   Robust learning and inference for mean functions in functional data analysis of imaging data

7. **Poster,** The Conference on Evolving Statistical Data Science, *Fairfax, VA*   Mar 2023
   Accelerated Algorithms for Elastic Net S-Estimators

HONORS & AWARDS

- **Graduate Student Travel Fund,** George Mason University   Jul 2024
- **Academic Excellence Scholarship in MS Statistics (one recipient annually),** Baruch College   Jan 2019
- **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 – May 2019
- 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

SERVICES & LEADERSHIP

Journal Referee

- Journal of Nonparametric Statistics
- TEST

- Statistical Analysis and Data Mining

Volunteer

- **ICORS meets DSSV 2024,** *Fairfax, VA* — Jul 2024
- **IMS Meeting of New Researchers in Statistics and Probability,** *Fairfax, VA* — Aug 2022
- **SC21 (ACM/IEEE Supercomputing Conference),** *St. Louis, MO* — Nov 2021

University

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