Yang Long

Department of Statistics, George Mason University
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EDUCATION

PhD in Statistical Science, George Mason University, *Fairfax, VA* GPA: 4.0/4.0 Jan 2021 – May 2026 (Exp.)

- **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* GPA: 4.0/4.0 Jan 2017 – May 2019

MS in Finance, University of Rochester, *Rochester, NY* Jul 2014 – Dec 2015

BEcon in Finance, Zhongnan University of Economics and Law, *Wuhan, China* Sep 2010 – Jun 2014

RESEARCH INTERESTS

- Robust nonparametric statistics
- Distributed learning methods
- Multispectral imaging analysis
- Non-convex optimization
- Functional data analysis
- 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," Revision invited at *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. "Robust and scalable distributed learning for surface-based imaging regression with applications to neuroimaging," with Z. Gu, G. Wang, and L. Wang, *In preparation*, 2025
5. "Illuminant spectrum estimation and inference to study animal coloration from multispectral camera images," with D. Hanley, and D. Kepplinger, *In preparation*, 2025
6. "Accelerated algorithms for robust penalized regression estimators," with D. Kepplinger, *In preparation*, 2025

PRESENTATIONS AND ACTIVITIES

1. **Invited Talk,** The 8th International Conference on Econometrics and Statistics (EcoSta 2025), *Virtual* Aug 2025
   Robust and scalable distributed learning for surface-based imaging regression with applications to neuroimaging
2. **Contributed Talk,** 2025 Joint Statistical Meetings, *Nashville, TN* Aug 2025
   Robust and scalable distributed learning for surface-based imaging regression with applications to neuroimaging

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

HONORS & AWARDS

- **Washington Statistical Society Outstanding Graduate Student**, George Mason University May 2025
- **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

SERVICE TO THE PROFESSION

Conference Session Chair

- **Invited Session Chair,** 2025 Joint Statistical Meetings, *Nashville, TN* Aug 2025
  Functional regression for complex data: accommodating ordinal, truncated, and zero-inflated structures

Journal Referee

- Journal of Applied Statistics: Enviro Stats
- Journal of Nonparametric Statistics
- Statistical Analysis and Data Mining
- TEST

Conference Volunteer

- **StatConnect 2025,** *Fairfax, VA* Mar 2025
- **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 SERVICES

George Mason University

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