

# YANG LONG

🏛 Department of Statistics, George Mason University

✉ ylong5@gmu.edu    🔗 ylong-chn.github.io

## EDUCATION

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**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

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- Robust nonparametric statistics
- Multispectral imaging analysis
- Functional data analysis
- Distributed learning methods
- Non-convex optimization
- Time series analysis

## HONORS & AWARDS

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- **Student Paper Runner-Up (Theory and Methods)**, 2025 Statistical Methods in Imaging Conference      May 2025
- **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

## PUBLICATIONS

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### *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

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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. **Invited Talk**, 2025 Statistical Methods in Imaging Conference, *Houston, TX* May 2025  
Robust learning and inference for mean functions in functional data analysis of imaging data
5. **Contributed Poster**, The Past, Present and Future of Statistics in the Era of AI, *Washington, D.C.* May 2025  
Robust learning and inference for mean functions in functional data analysis of imaging data
6. **Student Presentation**, StatConnect 2025, *Fairfax, VA* Mar 2025  
Robust learning and inference for mean functions in functional data analysis of imaging data
7. **Contributed Talk**, 2024 Joint Statistical Meetings, *Portland, OR* Aug 2024  
Illuminant spectrum estimation to study animal coloration from multispectral camera images
8. **Invited Talk**, ICORS meets DSSV 2024, *Fairfax, VA* Jul 2024  
Robust learning and inference for mean functions in functional data analysis of imaging data
9. **Contributed Poster**, The Conference on Evolving Statistical Data Science, *Fairfax, VA* Mar 2023  
Accelerated Algorithms for Elastic Net S-Estimators

## RESEARCH EXPERIENCE

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**Graduate Research Assistant**, George Mason University, *Fairfax, 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

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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

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- 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

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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

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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