

# Yang Long

Department of Statistics, George Mason University

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## EDUCATION

<b>PhD in Statistical Science</b> , George Mason University, <i>Fairfax, VA</i>	GPA: 4.0/4.0	Exp. May 2026
• <b>Advisors:</b> Dr. David Kepplinger and Dr. Lily Wang		
• <b>Topic:</b> Robust methods for high-dimensional regression and imaging data analysis		
<b>MS in Statistics</b> , CUNY-Baruch College, <i>New York, NY</i>	GPA: 4.0/4.0	May 2019
<b>MS in Finance</b> , University of Rochester, <i>Rochester, NY</i>		Dec 2015
<b>BEcon in Finance</b> , Zhongnan University of Economics and Law, <i>Wuhan, China</i>		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," 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. **Y. Long**, Z. Gu, G. Wang, 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
6. **Y. Long** and D. Kepplinger, "Accelerated algorithms for robust penalized regression estimators," *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. **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

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- **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

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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

SERVICES & LEADERSHIP

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*Journal Referee*

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

*Volunteer*

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

*University*

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| • <b>President/Vice President</b> , Statistics Graduate Student Association (SGSA) of GMU  | Jun 2021 – Present  |
| • <b>PhD Representative</b> , Graduate and Professional Student Association (GAPSA) of GMU | Aug 2021 – May 2023 |