# YANG LONG

Department of Statistics, George Mason University

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## EDUCATION

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

· 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

Jul 2024

Time series analysis

# HONORS & AWARDS

· Graduate Student Travel Fund, George Mason University Jul 2025

• NSF Travel Award, ICSA Applied Statistics Symposium 2025 June 2025

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

• WSS Outstanding Graduate Student Award, Washington Statistical Society May 2025

· Graduate Student Travel Fund, George Mason University

· 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

#### Accepted for Publication or Published

- 1. Y. Long, G. Cao, D. Kepplinger, and L. Wang, "Robust mean signal estimation and inference for imaging data," Statistica Sinica, Accepted, 2025+
- 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

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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*Robust learning and inference for mean functions in functional data analysis of imaging data
- 4. **Invited Talk**, 2025 Statistical Methods in Imaging Conference, *Houston, TX*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*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*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 \_\_

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

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# 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

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

· Statistical Analysis and Data Mining

Journal of Nonparametric Statistics

TEST

## Conference Volunteer

• StatConnect 2025, Fairfax, VA

Mar 2025

• ICORS meets DSSV 2024, Fairfax, VA

Jul 2024

 $\bullet \ \ \textbf{IMS Meeting of New Researchers in Statistics and Probability}, \textit{Fairfax, VA}\\$ 

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

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