

UW-Madison, Department of Statistics  
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# ALEJANDRA QUINTOS

## EMPLOYMENT AND EDUCATION

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### University of Wisconsin-Madison

Assistant Professor – Department of Statistics  
Affiliate – Data Science Institute  
Affiliate – Latin American, Caribbean, and Iberian Studies Program

Madison, WI  
Aug. 2022 – Present  
Apr. 2023 – Present  
Dec. 2022 – Present

### Universidad Nacional Autónoma de México (UNAM)

Visiting Professor – Instituto de Matemáticas

Mexico City, Mexico  
Aug. 2023 – Jul. 2025

### Columbia University

Ph.D. in Statistics – Advisor: Philip Protter  
M.Phil. in Statistics  
M.A. in Statistics

New York, NY  
Sep. 2016 – Jul. 2022  
Sep. 2016 – Feb. 2020  
Sep. 2016 – May 2018

### Universidad de las Américas Puebla

B.S. in Actuarial Science – Valedictorian, Summa Cum Laude, GPA: 9.9/10.0

Puebla, Mexico  
Aug. 2010 – Jun. 2015

## FELLOWSHIPS

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### University of Wisconsin-Madison

Nellie McKay Fellowship

Madison, WI  
Aug. 2022

### Columbia University

Dean's Fellowship

New York, NY  
Sep. 2016

### Fulbright – COMEXUS

Fulbright García-Robles Fellowship for *Columbia University*  
Proyecto 100 Mil Grant for Research Stay at *Cornell University*

Mexico City, Mexico  
Jun. 2015  
Jun. 2014

### Universidad de las Américas Puebla

Outstanding Student Scholarship

Puebla, Mexico  
Jun. 2010

## RESEARCH INTERESTS

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Applied Probability Theory, Stochastic Processes, Stochastic Control, Mathematical Finance, Statistical Methodology with Applications in Financial Risk, Machine Learning, Credit Risk Theory, Microfinance.

## PUBLICATIONS

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1. D. Gueye, **A. Quintos**, “Informationally-Fueled Dynamics: Crafting Sibuya Copulas with a Generalized Cox Framework”, 2026. Available online: <https://dx.doi.org/10.2139/ssrn.6114908>
2. F. Baltazar-Larios, **A. Quintos**, “Maximum Likelihood Estimation for Scaled Inhomogeneous Phase-Type Distributions from Discrete Observations”, 2025. Available online: <https://arxiv.org/abs/2512.16061>

3. H. Jasso-Fuentes, **A. Quintos**, X. Yang, “Group Survival Probability under Contagion in Microlending”, 2025. Available online: <https://arxiv.org/abs/2509.11579>
4. D. Gueye, **A. Quintos**, “Dependent Default Modeling through Multivariate Generalized Cox Processes”, 2025. Available online: <https://arxiv.org/abs/2508.05022>
5. C. Jiang, D. Kim, **A. Quintos**, Y. Wang, “Robust Reinforcement Learning under Diffusion Models for Data with Jumps”, 2024. Available online: <https://arxiv.org/abs/2411.11697>
6. P. Protter, **A. Quintos**, “Stopping Times Occurring Simultaneously”, *ESAIM: PS* 28, 110-131 (2024). <https://doi.org/10.1051/ps/2024001>.
7. R. Jarrow, P. Protter, **A. Quintos**, “Computing the probability of a financial market failure: a new measure of systemic risk”, *Annals of Operations Research* 336, 481–503 (2024). <https://doi.org/10.1007/s10479-022-05146-9>
8. P. Protter, **A. Quintos**, “Optimal group size in microlending”, *Annals of Finance* 18, 121–132 (2022). <https://doi.org/10.1007/s10436-020-00382-0>
9. **A. Quintos**, G. Romero-Meléndez, “Fractal modeling of poverty indicators in the state of Puebla”, Universidad de las Américas Puebla, 2014. *Available upon request*.
10. **A. Quintos**, “New Regulation in the Mexican Insurance Market”, SC Johnson Graduate School of Management at Cornell University, 2014. *Available upon request*.

## AWARDS

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- Gobierno del Estado de Puebla, *Premio Carmen Serdan–Mujer del Futuro*, Finalist, Nov. 2025.
- Columbia University, *Howard Levene Outstanding Teaching Award*, May 2022.
- Columbia University, *Presidential Award for Outstanding Teaching by a Graduate Student Instructor*, Finalist, Feb. 2022.
- Columbia University, *3-Minute Thesis (3MT) Competition*, Audience Choice Award, Feb. 2022.
- Columbia University, *Presidential Award for Outstanding Teaching by a Graduate Student Instructor*, Finalist, Feb. 2021.
- Universidad Popular Autónoma de Puebla, *Probability and Statistics Olympiad*, 1st place, Nov. 2014.
- Universidad de las Américas Puebla, *UDLAP Scholar (Highest GPA in Sciences School)*, Oct. 2014.
- Consejo de Ciencia y Tecnología del Estado de Puebla, *Tercer Encuentro Estatal de Jóvenes Investigadores (State Research Competition)*, 2nd place, Oct. 2014.
- Universidad Popular Autónoma de Puebla, *Probability and Statistics Olympiad*, 1st place, Nov. 2013.
- Universidad Popular Autónoma de Puebla, *Probability and Statistics Olympiad*, 1st place, Nov. 2012.

## INVITED & CONTRIBUTED TALKS

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- Purdue University, *Data Science in Finance Seminar-Department of Statistics*, West Lafayette, IN, Mar. 2026.
- Centre International de Rencontres Mathématiques (CIRM), *Advances in Mathematics of Randomness for Handling Risks in Finance and Insurance*, Marseille, France, Sep. 2025.
- ~~Union College, 2025 Progress in Discrete and Continuous Probability Conference, Schenectady, NY, Jul. 2025. – Canceled attendance due to Visa issues.~~

- Universidad de las Américas Puebla, *35th National Congress on Actuarial Sciences*, Puebla, Mexico, Feb. 2025.
- University of Wisconsin-Madison, *El Zoominario*, Madison, WI, Sep. 2024.
- Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional (Cinvestav), *Probability Seminar*, Mexico City, Mexico, Jun. 2024.
- Casa Matemática Oaxaca (CMO), *6th Meeting of Mexican Mathematicians in the World*, Oaxaca, Mexico, May, 2024.
- Universidad Popular Autónoma del Estado de Puebla, *Mathematical Modeling Seminar*, Puebla, Mexico, Nov. 2023.
- Sociedad Matemática Mexicana, *National Congress*, San Luis Potosí, Mexico, Oct. 2023.
- Universidad de las Américas Puebla, *Actuarial Science Colloquium*, Puebla, Mexico, Oct. 2023.
- Universidad Nacional Autónoma de México (UNAM), *Probability and Stochastic Processes Seminar*, Mexico City, Mexico, Aug. 2023.
- Latin American Society of Probability and Mathematical Statistics, *Latin American Congress of Probability and Mathematical Statistics (CLAPEM)*, São Paulo, Brazil, Jul. 2023.
- Princeton University, *Stochastic Control & Financial Engineering Seminar*, Princeton, NJ, Jun. 2023.
- University of Waterloo, *Young Talents in Actuarial Science and Quantitative Finance*, Waterloo, Ontario, Canada, Apr. 2023.
- Purdue University, *Research Colloquium-Department of Statistics*, West Lafayette, IN, Feb. 2023.
- Rutgers University, *Women in Mathematical Finance*, New Brunswick, NJ, Jun. 2023.
- Queen's University, *Department of Mathematics and Statistics Colloquium*, Kingston, Ontario, Canada, Feb. 2023.
- Rutgers University, *6th Eastern Conference on Mathematical Finance*, New Brunswick, NJ, Oct. 2022.
- University of Wisconsin-Madison, *Mathematics Colloquium*, Madison, WI, Sep. 2022.
- Institute of Mathematical Statistics, *2022 IMS Annual Meeting*, London, England, Jun. 2022. (Chair of Risk, Insurance, and Finance Session)
- Columbia University, *Minghui Yu Memorial Conference*, New York, NY, May 2022.
- Purdue University, *Probability Seminar*, West Lafayette, IN, Apr. 2022.
- Columbia University, *2022 Graduate Research Symposium of Women in Science*, New York, NY, Apr. 2022.
- New York University, *Brooklyn Quant Experience Lecture Series*, Brooklyn, NY, Feb. 2022.
- Rice University, *Department of Statistics Seminar*, Houston, TX, Feb. 2022
- New York University, *Department of Technology, Operations, and Statistics Seminar*, New York, NY, Feb. 2022
- Cornell University, *School of Operations Research and Information Engineering Seminar*, Ithaca, NY, Feb. 2022
- Carnegie Mellon University, *Department of Statistics and Data Science*, Pittsburgh, PA, Jan. 2022.
- University of California, Riverside, *Department of Statistics Seminar*, Riverside, CA, Jan. 2022.
- University of Wisconsin-Madison, *Department of Statistics Seminar*, Madison, WI, Jan. 2022.
- University of Minnesota-Twin Cities, *School of Statistics Seminar*, Minneapolis, MN, Dec. 2022.

- Federal Reserve Bank of Philadelphia, *Young Scholars Conference on Machine Learning in Economics and Finance*, Philadelphia, PA, Dec. 2021.
- Columbia University, *Department of Statistics Student Seminar*, New York, NY, Dec. 2021.
- CUNY, *20th Northeast Probability Seminar*, New York, NY, Nov. 2021.
- Columbia University, *Stochastic Processes and Applications*, Invited lecturer, New York, NY, Sep. 2021.
- Columbia University, *Research and Diversity – Graduate Student Panel*, New York, NY, Sep. 2021.
- Columbia University, *Undergraduate Research Experiences in Mathematical Modeling*, New York, NY, Jun. 2021.
- Universidad de las Américas Puebla, *32nd National Congress on Actuarial Sciences*, Puebla, Mexico, Apr. 2021.
- Columbia University, *Minghui Yu Memorial Conference*, New York, NY, Mar. 2021.
- Columbia University, *Minghui Yu Memorial Conference*, New York, NY, Apr. 2019.
- Universidad de las Américas Puebla, *30th National Congress on Actuarial Sciences*, Puebla, Mexico, Mar. 2019.

## TEACHING

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### University of Wisconsin-Madison

*Assistant Professor – Department of Statistics*

Madison, WI  
Aug. 2022 – Present

- Stochastic Processes in Finance (STAT 992) - Topics class for Ph.D. students
- Introduction to Statistical Inference (STAT 610)
- Introduction to Theory and Methods of Mathematical Statistics I (STAT 312)
- Introduction to Statistical Methods (STAT 301)

### Columbia University

*Teaching Assistant – Department of Statistics*

New York, NY  
Sep. 2016 – May 2022

- Stochastic Processes and Applications (Graduate level)
- Elementary Stochastic Processes (Undergraduate level)
- Probability (Graduate level)
- Statistical Inference (Graduate level)
- Calculus-based Introduction to Statistics (Undergraduate level)
- Applied Linear Regression Analysis (Undergraduate level)

*Directed Reading Program Mentor – Department of Mathematics*

Sep. 2021 – Dec. 2021

- Read and discuss probability research articles with an undergraduate student

*Research Mentor – Undergraduate Research Experiences in Mathematical Modeling*

Jun. 2021 – Aug. 2021

- Supervised 2 teams of 3 undergraduate students on interdisciplinary research projects:
  - Alzheimer's brain in a network diffusion model
  - Discrete-event market simulation of the Figgie card game
- Helped mentees to understand methods of research and scholarship
- Trained students in mathematical and statistical skills

## Others

*Sociedad Matemática Mexicana – National Congress (Puebla, Mexico)*

Oct. 2025

- Minicourse on Introduction to Stochastic Control in Finance

## PHD MENTORING

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- Xinta Yang (2022 – Present)

## THESIS COMMITTEE

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- Chenyang Jiang (UW-Madison – Ph.D. in Statistics – Preliminary Exam)
- Yongjoon Kim (UW-Madison – Ph.D. in Statistics)
- Youngsun Kim (UW-Madison – Ph.D. in Actuarial Science, Risk Management, and Insurance)
- Lauren Neudorf (UW-Madison – M.S. in Statistics – Applied Statistics)

## UNDERGRADUATE MENTORING

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- Alexa Siegel (2023-2024)

## LEADERSHIP & OUTREACH

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- Panelist, *La Vaporera: Ciencia y Arte en Español*, University of Wisconsin-Madison, Madison, WI, Oct. 2025.
- Panelist, *Panel Discussion for Beginning Researchers, Seminar on Stochastic Processes*, Rice University, Houston, TX, Mar. 2024.
- Panelist, *Mexican Mathematics in North America, National Congress*, Sociedad Matemática Mexicana, San Luis Potosí, Mexico, Oct. 2023.
- Speaker, *Celebrating Latinx voices in STEM*, University of Wisconsin-Madison, Madison, WI, Oct. 2023.
- Speaker, *2023 STAR (Summer Training for Aspiring Researchers)*, Department of Statistics, Columbia University, New York, NY, Jun. 2023.
- Speaker, *The International Day of Women and Girls in Science*, Engineering School, Benemérita Universidad Autónoma de Puebla, Puebla, Mexico, Feb. 2023.
- Member, *Committee on Diversity, Equity and Inclusion*, Department of Statistics, Columbia University, New York, NY, Sep. 2021 – Jul. 2022.
- Co-organizer, *Networking Meetings for Women*, Department of Statistics, Columbia University, New York, NY, Jan. 2020 – Jul. 2022.
- Speaker, *2022 STAR (Summer Training for Aspiring Researchers)*, Department of Statistics, Columbia University, New York, NY, Jun. 2022.
- Speaker, *Finding Strength in the Numbers: Growing Up Stories*, Women in Mathematics and Statistics, Columbia University, New York, NY, Apr. 2022
- Department of Statistics Representative, *The 2021 SACNAS National Diversity in STEM*, Digital Conference, Oct. 2021.

- Speaker, *Ph.D. Information Session for M.A. Students*, Department of Statistics, Columbia University, New York, NY, Oct. 2021.
- Host & Co-organizer, *Women in STEM Panel*, Undergraduate Research Experiences in Mathematical Modeling, Columbia University, New York, NY, Aug. 2021.
- Member, *Healthy Living Civic Engagement Project*, The Washington Center for Internships and Academic Seminars, Washington, DC, Feb. 2014 – May 2014.
- Mentor, *High School Finance Course*, Auxiliémos La Familia (non-profit organization), Puebla, Mexico, Aug. 2013 – Jan. 2014.

## PROFESSIONAL SERVICE

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- Reviewer for:
  - NSF Review Panelist (2 panels), 2023 - Division of Mathematical Sciences.
  - Reviewer for the book “Probabilidad. Un enfoque actuarial” (Probability: An Actuarial Approach) by Antonio Vicente González Frago.
  - SIAM Journal on Financial Mathematics (SIFIN).
  - Annals of Operations Research (ANOR).
- President of the ASA Wisconsin Chapter (July 2025-June 2026).
- Organizer, 2026 ASA Midwest Regional Conference.

## DEPARTMENT SERVICE

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- Graduate Studies Committee Member. 2022-2023; 2023-2024; 2024-2025; 2025-2026.
- Seminar Committee Member. 2025-2026.
- Climate & Diversity Committee Member. 2022-2023; 2023-2024; 2024-2025.
- MDS Committee Member. 2024-2025.

## PROFESSIONAL EXPERIENCE

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**Citigroup – Banamex** Puebla, Mexico  
*Compliance Analyst – Anti-Money Laundering* Jun. 2015 – Sep. 2015

- Developed novel risk models to detect and report activities linked to money laundering.

**Cornell University – SC Johnson Graduate School of Management** Ithaca, NY  
*Research Intern – Advisors: Lourdes Casanova and Richard Coyle* Jun. 2014 – Aug. 2014

- Conducted research on new regulations in the Mexican insurance market.

**American Association for Marriage and Family Therapy** Alexandria, VA  
*Policy Intern* Feb. 2014 – May 2014

- Estimated the organization’s pure premiums and assisted them in Congress Meetings on Capitol Hill.

## CERTIFICATIONS & PROGRAMS

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- Society of Actuaries, *Exam P: Probability*, Jan. 2014.
- Society of Actuaries, *Exam FM: Financial Mathematics*, Aug. 2013.

- The Washington Center for Internships and Academic Seminars, *Business and Global Trade Program*, Washington, DC, Jan. 2014 – May 2014.
- The Anglo Mexican Foundation, *Teacher Training Course – English language teaching methodology*, Puebla, Mexico, Aug. 2009 – May 2010.

## SKILLS

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- Programming: R, LaTeX, VBA, C#, Python, Mathematica, MATLAB.
- Applications: Minitab, EViews, Microsoft Office (Access, Excel, Word, PowerPoint, Publisher).

## OTHER

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- Languages: Spanish, English.
- Hobbies: Marathon running, swimming, hiking, crocheting.