UW-Madison, Department of Statistics 1300 University Ave, Madison, WI, 53706 (608) 262-6058 alejandra.quintos@wisc.edu alejandraquintos.com

Aug. 2010 – Jun. 2015

ALEJANDRA QUINTOS

EMPLOYMENT AND EDUCATION

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

University of Wisconsin-Madison	Madison, WI
Assistant Professor – Department of Statistics	Aug. 2022 – Present
Affiliate – Data Science Institute	Apr. 2023 – Present
Affiliate – Latin American, Caribbean, and Iberian Studies Program	Dec. 2022 – Present
Universidad Nacional Autónoma de México (UNAM)	Mexico City, Mexico
Visiting Professor – Instituto de Matemáticas	Aug. 2023 – Present
Columbia University	New York, NY
Ph.D. in Statistics – Advisor: Philip Protter	Sep. 2016 – Jul. 2022
M.Phil. in Statistics	Sep. 2016 – Feb. 2020
M.A. in Statistics	Sep. 2016 – May 2018
Universidad de las Américas Puebla	Puebla. Mexico

FELLOWSHIPS	
University of Wisconsin-Madison	Madison, WI
Nellie McKay Fellowship	Aug. 2022
Columbia University	New York, NY
Dean's Fellowship	Sep. 2016
E-H	Manian Cita Manian

Fulbright – COMEXUS Mexico City, Mexico Fulbright García-Robles Fellowship for Columbia University Jun. 2015 Proyecta 100 Mil Grant for Research Stay at Cornell University Jun. 2014

Universidad de las Américas Puebla Puebla, Mexico Outstanding Student Scholarship Jun. 2010

RESEARCH INTERESTS

Probability Theory, Applied Probability Theory, Stochastic Processes, Stochastic Control, Mathematical Finance, Credit Risk Theory, Microfinance, Statistics, Machine Learning.

PUBLICATIONS

- 1. P. Protter, A. Quintos, "Stopping Times Occurring Simultaneously", 2022. Available online: https://arxiv.org/abs/2111.09458
- 2. R. Jarrow, P. Protter, A. Quintos, "Computing the Probability of a Financial Market Failure: A New Measure of Systemic Risk", Annals of Operations Research, (2022). https://doi.org/10.1007/s10479-022-05146-9

- 3. 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
- 4. **A. Quintos**, G. Romero-Meléndez, "Fractal modeling of poverty indicators in the state of Puebla", Universidad de las Américas Puebla, 2014. *Available upon request*.
- 5. **A. Quintos**, "New Regulation in the Mexican Insurance Market", SC Johnson Graduate School of Management at Cornell University, 2014. *Available upon request*.

PHD MENTORING

Xinta Yang (2022 – Present)

THESIS COMMITTEE

Yongjoon Kim (UW-Madison - Statistics) Youngsun Kim (UW-Madison - Actuarial Science, Risk Management, and Insurance)

REFEREE

NSF Review Panelist (2 panels), 2023 - Division of Mathematical Sciences SIAM Journal on Financial Mathematics (SIFIN) Annals of Operations Research (ANOR)

INVITED & CONTRIBUTED TALKS

- Universidad Popular Autónoma del Estado de Puebla, *Mathematical Modeling Seminar*, Puebla, Mexico, November, 2023.
- Sociedad Matemática Méxicana, 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, 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, México, 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, México, Mar. 2019.

AWARDS

- 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.

TEACHING & MENTORING

University of Wisconsin-Madison

Madison, WI

Assistant Professor – Department of Statistics

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)

Columbia University

New York, NY

Teaching Assistant – Department of Statistics

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:
 - o Alzheimer's brain in a network diffusion model
 - o 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

LEADERSHIP & OUTREACH

- Speaker, *Mexican Mathematics in North America*, National Congress, Sociedad Matemática Méxicana, 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 EXPERIENCE

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: Prof. 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

- 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

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

OTHER

- Languages: Spanish (native), English (near-native fluency).
- Hobbies: Marathon running, swimming, hiking, crocheting.