YOUNGSUN KIM

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https://sundrop03.github.io

SUMMARY

Dedicated academic with quantitative expertise and a strong background in insurance consulting, risk management, and business analytics. Ongoing research explores financial decision-making under regulatory changes and natural hazards, leveraging insurance markets to address broader questions in business economics. Proven track record of designing and delivering courses in financial mathematics, risk management, and insurance theory, effectively bridging theoretical concepts with real-world applications. Committed to fostering student learning with interactive teaching methods and ongoing, supportive feedback.

EDUCATION

University of Wisconsin-Madison   Madison, WI
Ph.D. in Business (Insurance Economics and Actuarial Analytics)   *2024*

Georgia State University   Atlanta, GA
M.S. in Actuarial Science   *2015*
M.S. in Risk Management and Insurance (Mathematical Risk Management)   *2015*

Korea University   Seoul, Korea
B.A. in Public Administration (*Minor: Economics*)   *2009*

PUBLICATIONS

Kim, Y. and Bauer, D. (2025). Transfer Learning in the Actuarial Domain: Foundations and Applications. *North American Actuarial Journal (NAAJ)*, forthcoming.

WORKING PAPERS

Kim, Y. (2023). Insurance Agency Locations in Milwaukee: Insights from New Data and Agency Differentiation, *Submitted (Revised 2024)*

Kim, Y. and Bauer, D. (2024). Cross-subsidization in the Personal Insurance Markets, *Working paper*

TEACHING ACTIVITIES

Actuarial Science Methods II (ACT SCI 301)   Madison, WI
Instructor of Record - Undergraduate course   *2020 - 2024*

· Developed and delivered two 75-minute lectures per week on financial mathematics, aimed at enhancing students' knowledge of mathematical tools for quantitatively assessing financial risk.

Machine Learning for Business Analytics (GB 656)   Madison, WI
Teaching Assistant - Master's course   *2021 - 2023*

· Introduced machine learning foundations and methods for business applications, evaluated assignments, and coached 130+ students in R and Python for predictive and financial modeling, offering office hours to support coding skills and Kaggle competition preparation.

Business Analytics II (GB 307)   Madison, WI
Teaching Assistant - Undergraduate course   *2019 - 2020*

· Emphasized hands-on experience with analytic methodologies in predictive and prescriptive analytics, leading two weekly 50-minute sessions on quantitative analysis and data manipulation using Excel and Access.

Business Analytics I (GB 306)
Madison, WI
Teaching Assistant - Undergraduate course
2018 - 2019

· Led weekly 50-minute sessions to help develop quantitative intuition through hands-on Excel work, focusing on hypothesis testing, regression, simulation, statistical literacy, and effective data communication.

PRESENTATIONS

Cross-subsidization in the Personal Insurance Markets

· Middle Tennessee State University	*Feb 2025*
· University of Illinois Urbana-Champaign	*Oct 2024*

Persistence of Insurance Redlining
The 58th Actuarial Research Conference (Drake University)   *Aug 2023*

Transfer Learning in Actuarial Science
The 57th Actuarial Research Conference (University of Illinois Urbana-Champaign)   *Aug 2022*

HONORS & REWARDS

Actuarial Research Conference Honorable Mention	*2023*
Wisconsin School of Business Travel Award	*2022 - 2023*
Wisconsin School of Business Distinguished Teaching Award	*2020 - 2023*
Wisconsin School of Business Graduate Scholarship	*2018 - 2022*

WORKSHOPS & CONFERENCES

Causal Inference - hosted by *American Risk and Insurance Association (ARIA)*	*Dec 2021*
World Risk & Insurance Economics Congress - hosted by *ARIA*	*Aug 2020*
Financial Economics of Insurance - hosted by *Princeton University*	*Jun 2020*

AFFILIATIONS & MEMBERSHIPS

Member - *American Risk and Insurance Association (ARIA)*	*2021 – Present*

SERVICE

Ad Hoc Reviewing - *Journal of Risk and Insurance*

PROFESSIONAL EXPERIENCE

Samsung Fire & Marine Insurance
Seoul, Korea
Graduate Intern
Summer 2021

· Analyzed the current risk model and presented optimal risk capital management strategies to the Chief Actuary.
· Demonstrated flexibility with machine learning and explored its feasibility in risk rate analysis, presenting findings to leadership.

Willis Towers Watson
Seoul, Korea
Actuarial Analyst
2015 - 2018

· Implemented economic capital modeling in a dynamic financial analysis project for a large P&C insurer.
· Served as the primary point of contact for communication with P&C insurers and regulatory authorities in the region.
· Led solution sales to P&C insurers and served as the primary instructor for professional training sessions. Organized the inaugural industry-wide seminar, gathering insurance professionals and regulators to enhance company presence in the region.

· Conducted analyses on an insurer's claims and reserve assumptions as part of a Best Estimate analysis project. Additionally, updated and analyzed actuarial assumptions to compare the Embedded Value (EV) and appraisal value of an insurer.

Samjung Shipping   Seoul, Korea
Operations Assistant   *2011 - 2012*

· Performed market analysis and updated the availability of optimal vessels in the open market to inform procurement decisions.
· Reviewed and processed extra insurance premiums for cargoes carried by over-aged vessels.

CERTIFICATIONS & EXAMS

Society of Actuaries

· Passed Exam P, Exam FM, and Exam IFM
· Received credit for Exam SRM
· Passed the Pre-Actuarial Foundations (PAF) module

Chartered Property Casualty Underwriter (CPCU)

· Passed Exam 540: Finance and Accounting for Insurance Professionals

Bloomberg Essentials Training Program Certification

· Certified in Bloomberg Terminal usage, including core functions such as market analysis, data retrieval, and integration

TECHNICAL PROFICIENCIES

Software	MS Office Suite and QGIS
Programming	R, Python, and VBA
Actuarial Software	MoSes, RiskAgility FM, Emblem, Igloo, and ResQ