YOUNGSUN KIM

Madison, WI

sundrop03@gmail.com ◇ +1 (608) 733-7373

https://sundrop03.github.io

SUMMARY

Dedicated academic with extensive experience in insurance consulting, risk management, and business analytics. Ongoing research explores financial decision-making under regulatory changes and natural hazards, using insurance companies as a model. Proven success in developing and teaching courses in financial mathematics, risk management, and insurance theory, effectively bridging theoretical concepts with practical 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) — *August 2024*

Georgia State University — Atlanta, GA
M.S. in Actuarial Science — *May 2015*
M.S. in Risk Management and Insurance — *May 2015*

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

WORKING PAPERS

Kim, Y. and Bauer, D. (2023). Transfer Learning in the Actuarial Domain: Foundations and Applications, *Submitted*

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

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
Lecturer (SA) - Undergraduate course — *August 2020 - May 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 — *August 2021 - December 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 — *August 2019 - May 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 — *August 2018 - May 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

The 58th Actuarial Research Conference — Des Moines, IA
Persistence of Insurance Redlining: Exploring distribution of insurance agencies and implications — *August 2023*

The 57th Actuarial Research Conference — Champaign, IL
Transfer Learning in Actuarial Science: Primer and Applications — *August 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, 2021, 2022, 2023*
Wisconsin School of Business Graduate Scholarship	*2018 - 2022*

WORKSHOPS & CONFERENCES

Causal Inference - hosted by *American Risk and Insurance Association (ARIA)*	*December 2021*
Allied Social Science Associations (ASSA)/American Economic Association (AEA) Annual Meeting	*January 2021*
World Risk & Insurance Economics Congress - hosted by *ARIA*	*August 2020*
Financial Economics of Insurance - hosted by *Princeton University*	*June 2020*

AFFILIATIONS & MEMBERSHIPS

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

REVIEWER SERVICE

Referee - *Journal of Risk and Insurance*

PROFESSIONAL EXPERIENCE

Samsung Fire & Marine Insurance — Seoul, Korea
Graduate Intern — *July 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 — *December 2015 - May 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. Additionally, led a proof of concept to automate the client's legacy system, aligning it with regulatory changes.
· 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 — *January 2011 - December 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 AND EXAMS

Society of Actuaries

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

Chartered Property Casualty Underwriter (CPCU)

· Passed Exam 540: Finance and Accounting for Insurance Professionals

TECHNICAL PROFICIENCIES

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