

Minsik Kim

Ph.D. Student in Risk Management and Insurance

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EDUCATION

Temple University, Philadelphia, PA Aug 2025 – Expected May 2030
Ph.D. in Risk Management and Insurance

Korea Advanced Institute of Science and Technology (KAIST), South Korea Aug 2023
M.B.A. in Digital Finance

Seoul National University (SNU), South Korea Aug 2018
B.S. in Mathematical Sciences, Computational Sciences & Technology

RESEARCH INTERESTS

- Actuarial Modeling & Predictive Analytics
- Variable Annuities & Life Insurance Products
- Enterprise Risk Management & Financial Stability of Insurers

PROFESSIONAL EXPERIENCE

Samsung Life Insurance Jul 2018 – Aug 2025
Assistant Manager, Product Developer & Senior Actuarial Analyst

- Developed an automated actuarial assumption system using advanced statistical models, optimizing large-scale data processing efficiency by 70%.
- Conducted comprehensive risk assessments and managed the in-house Enterprise Data Warehouse (EDW) for P&L analysis, leveraging precise data to support pricing strategies and product development.
- Analyzed financial metrics and evaluated Contractual Service Margin (CSM) under IFRS 17 standards for new business valuations.

Milliman Korea Mar 2018 – Jun 2018
Research Intern

- Developed a Cash Flow Pricing Model using Julia to improve computational efficiency.

Korea Insurance Development Institute May 2018
Exam Reviewer

- Validated the accuracy and difficulty levels of the Korean actuarial qualification exam.

TEACHING EXPERIENCE

Temple University Philadelphia, PA
Teaching Assistant

- AS 2502 Theory of Interest Fall 2025
- AS 3501 Long-term Actuarial Modeling Fall 2025
- AS 2503 Actuarial Corporate Finance Fall 2025
- RMI 3503 Retirement Plans Fall 2025, Spring 2026
- RMI 3506 Risk Analytics Fall 2026

PROFESSIONAL DESIGNATIONS

Associate of the Society of Actuaries (ASA) 2024 – present

- Pursuing FSA designation in the Quantitative Finance and Investment (QFI) track.

Fellow of the Institute of Actuaries of Korea 2021 – present

PRESENTATIONS

- **Impact of Basis Risk on Variable Annuity Reserves and Capital Requirements**
 - 2026 61st Actuarial Research Conference (ARC); Columbus, OH July 2026
 - Invited Talk, Graduate School of Actuarial Science, Sungkyunkwan University (SKKU); Seoul, South Korea July 2026
 - The 29th International Congress on Insurance: Mathematics and Economics (IME 2026); Seoul, South Korea June 2026
 - Brownbag Seminar, Department of Risk, Actuarial Science, Healthcare Management, and Legal Studies; Fox School of Business, Temple University, Philadelphia, PA May 2026

SELECTED GRANTS, FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

- **Life Insurance Social Contribution Committee Ph.D. Fellowship**, Korea Life Insurance Association 2026 – 2030 (expected)
 - *Selected as the sole recipient for the 2026 cohort among Korean Ph.D. students studying insurance abroad; USD 40,000 per year for four years.*
- **Conference Travel Grant**, Fox School of Business, Temple University 2026
 - *Awarded funding to present research at the IME 2026 and the 2026 61st ARC.*
- **Academic Scholarship**, KAIST 2021 – 2023
- **Academic Scholarship**, Chan-young Scholarship 2018
- **Academic Scholarship**, Kwanak Corporation (SNU Alumni Scholarship) 2014
- **Presidential Science Scholarship**, Korea Student Aid Foundation (KOSAF) 2011
 - *Highly competitive national scholarship awarded to Top 100 undergraduate students in science & technology in South Korea.*

SKILLS

Programming Python, R, SQL, MATLAB, Stata, Julia

Actuarial Software Prophet, Excel (VBA & Macros)

Research Tools L^AT_EX, WRDS

Language Korean (Native), English (Professional)