

Ki Hong Joo

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PROFESSIONAL EXPERIENCE

Head of Consulting

Seoul, South Korea

FORTRESS INNOVATION

Oct '13 to Dec '23

- ◆ Provided GPU based parallel computing simulation tool for GMxBs reserve calculation, GMxBs pricing, Dynamic hedging, IFRS-17 BEL, SAA-ALM (stochastic on stochastic simulation).
- ◆ Provided SAA (Strategic Asset Allocation) ALM consulting services to major South Korean insurers under newly adapted IFRS-17 & 9 by applying liability replicating portfolios method.
 - ✓ Calculated PVDEs (Present Value of Distributable Earnings) projection of 10 years for 1,000 outer stochastic scenarios with a liability RP (Replicating Portfolios) method to avoid time consuming BELs (Best Estimated Liabilities) calculation at every modeling points.
 - ✓ Valued and analyzed interest rate sensitivity for zero coupon bonds, floating rate bonds, asset backed securities/mortgage backed securities, IRS, loans and equities.
 - ✓ Educate and market new ALM methodology (Risk Optimization by Partial Duration Sensitivity Analysis)

Country Manager

Seoul, South Korea

NEXUS RISK MANAGEMENT

Feb '07 to Sep '13

- ◆ Plan, develop and drive overall marketing strategy for the South Korean marketplace
- ◆ Provide a GMxBs Dynamic Hedging Simulation Model that calculates (stochastic on stochastic simulation) the benefits and costs of various hedging strategies (Delta, Delta + Rho, Delta + Rho + Vega)

Country Head & Managing Director, Product and Investment Management Consulting

Seoul, South Korea

Charlotte, NC

TRANSAMERICA REINSURANCE

Mar '00 to Oct '06

Dec '97 to Feb '00

Leadership, Management and Business Development

- ◆ Held responsibility for market entrée into the Far East insurance/reinsurance market, developed influential relationships with key business partners/ reinsurance clients and established a leadership role in the South Korean marketplace
- ◆ Planned, developed and drove overall marketing strategy
- ◆ Provided Asset Liability Management (ALM) consulting to South Korea insurance industry

Senior Manager, Product Development

Ridgefield Park, NJ and Seoul, South Korea

SAMSUNG LIFE INSURANCE CO.

Feb '93 to Dec '97

- ◆ Developed and introduced new life insurance products such as universal life for the South Korea marketplace
- ◆ Designed Life Product Development Software, Profit Testing & Asset Liability Matching System (in Visual Basic) for the South Korean market
- ◆ Educated and trained distribution personnel to expedite the introduction of new products
- ◆ Researched trends in regulatory and governmental policies impacting the industry

Pricing Actuary, Product Development

Stamford, CT

COLOGNE LIFE REINSURANCE

May '89 to Feb '93

- ◆ Developed actuarial models; designed, priced and implemented new products/enhanced existing products
- ◆ Evaluated contingency risks such as mortality/longevity, asset-liability matching and expense risks.
- ◆ Developed and implemented rating policies and procedures.
- ◆ Performed experience studies and trend analysis, competitive comparisons and profit testing.

EDUCATION

University of Hartford

Masters of Insurance Science, Finance Concentration

Hartford, CT
September '87 ~ May '89

Towson University

Bachelor of Science, Actuarial Science Major

Towson, MD
March '83 ~ May '85

In-Ha University

Bachelor of Science, Naval Architecture Engineering

Inchon, Korea
March '74 ~ February '81

PROFESSIONAL AFFILIATIONS

Financial Risk Manager (FRM), Global Association of Risk Professionals, 2001

Chartered Financial Analyst (CFA) Level 1, 1999

Chartered Life Underwriter (CLU), 1997

Society of Actuaries Exams Parts 1-4 & one subject (Construction of Mortality Table) of Part 5

VISA STATUS

Citizen of the United States