GARY C. WANG, FCAS, MAAA, CSPA

Senior Consulting Actuary | Bloomington, Illinois

Gary re-joined Pinnacle in 2022 after two years with a large consulting firm. Prior to first joining Pinnacle, Gary was a pricing actuary for three of the top 10 insurance companies. His experience includes standard homeowners rate indications, commercial auto rate indications, and reinsurance treaty pricing for personal and commercial lines. He also has experience in reserving analyses for commercial auto and market trend analyses for commercial auto and workers' compensation.

Gary has worked extensively on the application of advanced statistical modeling techniques to the insurance process. His experience in predictive analytics applications include rating and underwriting plan design, homeowners by peril analyses, auto vehicle characteristics analyses and scorecard development, and territory boundary development. Gary has made numerous presentations on topics relating to analytics and its application to insurance.

Gary has assisted companies in the design and implementation of rating plans and underwriting scorecards, assisted clients with incorporating data sources into classification plans, and enhanced territory classification utilizing advanced analytical methodologies for client companies.

He has also designed custom vehicle classification scorecards, designed and maintained inspections prioritization scorecards, and peer-reviewed and advised companies on their analytics processes.

Gary's current focus is on the analysis of unfair discrimination and bias in rating and the interpretation and significance of the various tests and metrics associated with the fairness tests. He has presented numerous times on this topic to both actuarial and non-actuarial audiences.

★ Qualified to sign statements of actuarial opinion per the American Academy of Actuaries (AAA)

YEARS OF EXPERIENCE

24

AREAS OF FOCUS

Predictive Analytics, Personal Lines, Pricing Development, Claims Analytics, Data Management

EDUCATION

University of Illinois, 1993
B.S. Mathematics

Northern Illinois University
Graduate-level course work in mathematics, 1996 – 1999
M.S. Mathematics Education, 1996

CERTIFICATIONS

Casualty Actuarial Society (CAS), Fellow, 2004

AAA, Member, 2003

The CAS Institute, Certified Specialist in Predictive Analytics (CSPA), 2017

SAS® Certified Predictive Modeler Using SAS® Enterprise Miner™ 13

CURRENT VOLUNTEERISM

CAS Ratemaking, Product and Modeling (RPM) Seminar Planning Committee, 2009 – Present

THOUGHT LEADERSHIP HIGHLIGHTS

"Bias Discussion 2.0, Moving from Theory to Practice," Farm Bureau Actuarial Conference, July 2023

"Introduction to Accurate GLM," CAS Spring Meeting, May 2023

"Bias Discussion 2.0: Fairness in Insurance Modeling," CAS Ratemaking, Product and Modeling (RPM) Seminar, March 2023

"Building GBM Using R Workshop," CAS RPM Seminar, March 2023

"An Introduction and Update to the Fairness in Insurance Discussion," Pinnacle APEX Webinar, February 2023

"Bias in Insurance and Legislative Impacts," Financial Reporting (FINREP) Forum Texas, November 2022

PROFESSIONAL PRESENTATIONS

"Bias Discussion 2.0, Moving from Theory to Practice," Farm Bureau Actuarial Conference, July 2023

"Introduction to Accurate GLM," CAS Spring Meeting, May 2023

"Bias Discussion 2.0: Fairness in Insurance Modeling," CAS RPM Seminar, March 2023

"Building GBM Using R Workshop," CAS RPM Seminar, March 2023

"An Introduction and Update to the Fairness in Insurance Discussion," Pinnacle APEX Webinar, February 2023

"Bias in Insurance and Legislative Impacts," FINREP Forum Texas, November 2022

"Introduction to Accurate GLM," CAS International Webinar; CAS RPM Virtual Seminar, 2022

"How to Incorporate Simulated Data into Actuarial Research," Pinnacle APEX Webinar, 2020

"Impact of Disruptive Technologies on Actuarial Projections," Insurance Accounting and Systems Association (IASA) Indiana Chapter Meeting, 2019

"The Actuary's Evolving Role in Today's Dynamic Industry Landscape," Pinnacle APEX Webinar, 2019

"Easy Tree-sy & A Walk in the Woods: An Introduction to Decision Trees and Random Forests," Zurich Actuarial Network Meeting, 2019

"A Walk in the Woods: Random Forests for the Actuary," The Fifth Joint Annual General Insurance and Takaful Seminar, 2018

"GLMs, Machine Learning, and More, Oh My!" CAS Annual Meeting, 2018– 2019

"Technology's Impact on Personal and Commercial Auto Insurance," Pinnacle APEX Webinar, 2018

Introduction to R Workshop, CAS RPM Seminar, 2014 – 2018

"Point Estimation Models vs. Ranking Models," CAS RPM Seminar, 2017

"Incorporating Predictive Analytics in Reserving: How and Why," CAS Spring Meeting, 2016

"UBI and Data Analysis: Seeking Consumer Value Beyond Price Differentiation," Insurance Telematics Canada, 2016

PAST VOLUNTEERISM

CAS Exam Committee	2005 – 2016

EMPLOYMENT HISTORY

Pinnacle Actuarial Resources, Inc.	2022 – Present
Willis Towers Watson	2020 – 2022
Pinnacle Actuarial Resources, Inc.	2005 – 2020
Scor Reinsurance Company	2003 – 2005
Kemper Insurance Companies	2000 – 2003
Allstate Insurance Company	1999 – 2000