



MICHAEL CHEN, FCAS, MAAA, CSPA

Senior Consulting Actuary | Des Moines, Iowa



Michael re-joined Pinnacle in 2023 after three years with a large consulting firm. Michael has been in the property/casualty industry since 2003, focusing on pricing and product development. In this role, he has developed homeowners, private passenger auto, farmowners, crop insurance and commercial lines pricing solutions through the design and implementation of advanced predictive models.

Michael 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, territory boundary development

and commercial lines pricing. Michael has made numerous presentations on topics relating to predictive analytics, its application to insurance and professionalism.

Michael performs traditional actuarial analyses, including overall rate level indications, rate and rule filings, regulatory support and assessment of company financial experience. He develops risk classification plans through assessment of underwriting profitability, competitive analysis and research of insurance laws. He also performs rate filing reviews for departments of insurance.

He has also designed custom underwriting scorecards, developed claim triage scorecards, peer-reviewed and advised companies on their analytics processes, and performed loss reserving analyses.

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

YEARS OF EXPERIENCE

20

AREAS OF FOCUS

Insurers, Predictive Analytics, Pricing/Product Management

EDUCATION

University of Iowa
B.S. Psychology, 2000
B.A. Sociology, 2000

CERTIFICATIONS

Casualty Actuarial Society (CAS), Fellow, 2009
AAA, Member, 2007
The CAS Institute, Certified Specialist in Predictive Analytics (CSPA), 2017
SAS® Certified Predictive Modeler Using SAS® Enterprise Miner™ 13, 2017

CURRENT VOLUNTEERISM

CAS Professionalism Education Working Group, 2012 – Present

THOUGHT LEADERSHIP HIGHLIGHTS

“Advanced Machine Learning in Real Life,” CAS Ratemaking and Product Management Seminar, 2023
“Making Sense of Disparate Impact,” CAS Annual Meeting, Midwestern Actuarial Forum, Buckeye Actuarial Continuing Education, 2022
“How to Incorporate Simulated Data into Actuarial Research,” Pinnacle APEX Webinar, February 2020
“GLMs, Machine Learning, & More, Oh My!” CAS Annual Meeting, 2018, 2019

PROFESSIONAL PRESENTATIONS

- “Advanced Machine Learning in Real Life,” CAS Ratemaking and Product Management Seminar, 2023
- “Making Sense of Disparate Impact,” CAS Annual Meeting, Midwestern Actuarial Forum, Buckeye Actuarial Continuing Education, 2022
- “How to Incorporate Simulated Data into Actuarial Research,” Pinnacle APEX Webinar, February 2020
- “GLMs, Machine Learning, & More, Oh My!” CAS Annual Meeting, 2018, 2019
- “The Actuary’s Evolving Role in Today’s Dynamic Industry Landscape,” Pinnacle APEX Webinar, February 2019
- “Lights! Camera! Professionalism!” CAS Ratemaking and Product Management Seminar, 2017, 2018
- “Vehicle History: Insurance Scoring for Your Car,” CAS Ratemaking and Product Management Seminar, 2017, 2018
- “Using Predictive Analytics to Understand Your Claims Process,” Pinnacle APEX Webinar, February 2017
- “Autonomous Vehicles and Their Impact on the Insurance Space,” Pinnacle APEX Webinar, December 2016
- “State of the UBI Market — Shift to the Connected Car Business Model,” Pinnacle APEX Webinar, September 2016
- “Introduction to Predictive Analytics,” CAS Webinar, December 2015
- “Property/Casualty Professionalism Education,” CAS Annual Meeting, 2013
- “Property/Casualty Experience Studies,” Iowa Actuaries Club, 2013 Actuarial Education Event

PAST VOLUNTEERISM

CAS Examination Committee, 2010 – 2018

EMPLOYMENT HISTORY

- Pinnacle Actuarial Resources, Inc., 2023 – Present
- Willis Towers Watson, 2020 – 2023
- Pinnacle Actuarial Resources, Inc., 2014 – 2020
- FBL Financial Group, 2003 – 2014
- American Republic Insurance Company, 2001 – 2003