

# RADOST ROUMENOVA WENMAN, FCAS, MAAA, CSPA

Senior Consulting Actuary | San Ramon, California



Radost has been in the property/casualty industry since 2006, focusing on pricing and product development. Radost has extensive and broad experience in the application of analytics and data mining techniques in the insurance context. In this role, she has developed homeowners, private passenger auto and commercial lines pricing solutions through the design and implementation of advanced predictive models.

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

filing reviews for departments of insurance.

Further, Radost designs, builds and evaluates statistical models, incorporating supervised and unsupervised techniques for a variety of applications in the insurance domain, including a) pricing and risk classification, b) underwriting tiers, c) territory definitions, d) claims triage and e) customer conversion and retention. She also manages, assesses and transforms data to enhance the utility of statistical models.

Radost researches the topics of Bayesian statistics, methods for missing data imputation, and unsupervised algorithms for outlier and anomaly detection.

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

## YEARS OF EXPERIENCE

17

## AREAS OF FOCUS

Predictive Analytics, Personal and Commercial Lines Pricing and Product Development, Data Management

## EDUCATION

Stanford University  
M.S. Statistics, 2004  
B.S. Mathematics, 2003

## CERTIFICATIONS

Casualty Actuarial Society (CAS), Fellow, 2012  
American Academy of Actuaries (AAA), Member, 2010  
The CAS Institute, Certified Specialist in Predictive Analytics (CSPA), 2018

## CURRENT VOLUNTEERISM

CAS Actuarial Review Committee, 2017 – Present

## THOUGHT LEADERSHIP HIGHLIGHTS

- “CPCU Society Webinar: Race and Insurance Pricing, Part 2: Analysis and Action,” The Institutes Webinar, May 2023
- “Defining Discrimination and Quantifying Discriminatory Effects in Insurance,” with Roosevelt Mosley Jr. and Kuda Chibanda, Pinnacle APEX Webinar, February 2022
- “What is the Role of Insurance Companies in the Call for Social Justice?” Zurich Actuarial Network Meeting, July 2021
- “From GLMs to GAMs,” National Association of Insurance Commissioners (NAIC) CASTF Predictive Analytics Book Club, April 2021
- “Actuarial Standards of Practice: Modeling and Assumptions,” with Laura Maxwell and Kendra Letang, Pinnacle APEX Webinar, December 2020
- “Disparate Impact and Rate Differentiation: A New Paradigm,” CAS Webinar, November 2020
- “The Importance of Data Management and Data Quality,” with Greg Frankowiak, Pinnacle APEX Webinar, May 2020
- “Connecting the Dots of Insurance Fraud Using Graph Analytics,” Pinnacle Blog Post, January 2020

**PROFESSIONAL PRESENTATIONS**

- “CPCU Society Webinar: Race and Insurance Pricing, Part 2: Analysis and Action,” The Institutes Webinar, May 2023
- “Defining Discrimination and Quantifying Discriminatory Effects in Insurance,” with Roosevelt Mosley Jr. and Kuda Chibanda, Pinnacle APEX Webinar, February 2022
- “What is the Role of Insurance Companies in the Call for Social Justice?” Zurich Actuarial Network Meeting, July 2021
- “From GLMs to GAMs,” National Association of Insurance Commissioners (NAIC) CASTF Predictive Analytics Book Club, April 2021
- “Actuarial Standards of Practice: Modeling and Assumptions,” with Laura Maxwell and Kendra Letang, Pinnacle APEX Webinar, December 2020
- “Disparate Impact and Rate Differentiation: A New Paradigm,” CAS Webinar, November 2020
- “The Importance of Data Management and Data Quality,” with Greg Frankowiak, Pinnacle APEX Webinar, May 2020
- “Digging into the Modeling Lifecycle,” with Greg Frankowiak, Pinnacle APEX Webinar, September 2019
- “Status of Cyber Liability Insurance and Methodology,” with Laura Maxwell, Pinnacle APEX Webinar, October 2018
- “Introduction to R,” Workshop, CAS Ratemaking and Product Management Seminar, March 2017

**PROFESSIONAL PUBLICATIONS**

- “Methods for Quantifying Discriminatory Effects on Protected Classes in Insurance,” with Roosevelt Mosley Jr., CAS Research Paper on Race and Insurance Pricing, 2022
- “Connecting the Dots of Insurance Fraud Using Graph Analytics,” Pinnacle Blog Post, January 2020
- “Artificial Intelligence – Welcome Opportunity or Inescapable Challenge for Insurers?” Pinnacle Monograph, September 2019
- “The Predictors in my Model are all Significant at the 5% Level. So?” Pinnacle Blog Post, September 2018
- “May I Please Have some Neural Networks with my Insurance Data?” Pinnacle Blog Post, September 2017
- “What Does Benford’s Law Have to Do with Insurance Fraud?” Pinnacle Blog Post, February 2017
- “Recent Trends in Personal Auto Insurance Costs,” Pinnacle Blog Post, October 2016

**EMPLOYMENT HISTORY**

Pinnacle Actuarial Resources, Inc.	2016 – Present
California Casualty Management Company	2006 – 2016

**PAST VOLUNTEERISM**

The CAS Institute CSPA Continuing Education Committee	2019 – 2020
ASTIN Machine Learning and Traditional Methods Synergy in Non-Life Reserving Working Party	2017 – 2018