MODELING

(Vote for up to three candidates)

Matthew Zhang

Jennifer Wang

Kevin L. Durand

Ryan Krisac

Mark P. Stukowski

Winston Hall

Housseine Essaheb

Andrei Titioura

Matthew Zhang, FSA, CERA, MAAA
Consultant
Oliver Wyman
Toronto, ON

Professional Background
I am a consultant in the US life actuarial consulting practice of Oliver Wyman.
Over the course of my career, my primary focus has been on actuarial modeling.
I advise and provide actuarial services to life insurers and reinsurers on various
modeling-related topics, including:

- Editing and publishing a semi-annual modeling newsletter
- Supporting clients with the establishment of modeling standards, processes, and model governance requirements
- Managing a broad suite of modeling-related intellectual capital
- Assessing the capabilities of different actuarial modeling solutions
- Leading model implementation and validation engagements across a range of product lines and functional areas

Prior to joining Oliver Wyman, I held other consulting roles focused on actuarial
modeling services.

**Society of Actuaries Experience (Section and committee memberships
and participation)**
- Long-time Member of the Modeling Section
- Friend of the Modeling Section Council, supporting the coordination of Modeling Section sponsored webcasts
- Frequent contributor to the Modeling Section newsletter, The Modeling Platform
- Frequent speaker at the LAS, ValAct, SOA Annual Meeting, and SOA webcasts

Other Relevant Volunteer Experience
NA

Why are you interested in leading this section?

I have always been fascinated by the topic of actuarial modeling and have consequently aligned my career path with it.

There has been an increased focus on modeling and model governance in recent years due to rapidly evolving regulatory and environmental changes (e.g., increased focus on controls, closer integration of actuarial modeling with IT and data functions, adoption of ASOP 56, etc.). I look forward to staying on the cutting edge of changes to the actuarial modeling landscape over the next decade and supporting the actuarial community by being a thought leader, sharing relevant content and promoting emerging practices.

I will leverage my professional experience and network to contribute to the Modeling Section's objectives in the following ways:

- Promoting member incentives for participation and grow the section's member base
- Delivering relevant education in the form of articles, webcasts and sessions on emerging modeling topics
- Encouraging the application of expertise derived from other fields to actuarial modeling
- Providing continuing education and networking opportunities for modeling actuaries

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Jennifer Wang, FSA, CERA, MAAA
Consulting Actuary
Milliman, Inc.
Little Falls, NJ

Professional Background
Jennifer Wang is a Consulting Actuary at Milliman, Inc. She has over 10 years of experience as a life actuary, and her areas of expertise include liability modeling (in support of various applications such as M&A, cash flow testing, financing transactions and policyholder dividend management), model governance and model validation.

Society of Actuaries Experience (Section and committee memberships and participation)
Jennifer has been co-editor of the Modeling Section's newsletter, *The Modeling Platform*, since November 2018, and has been a Friend to the Modeling Section Council since December 2015. She has presented at SOA meetings on topics related to modeling, such as how to apply traditional model validation techniques to predictive models, and the culture of model governance.

Other Relevant Volunteer Experience
NA

Why are you interested in leading this section?
I am eager to join the Modeling Section as a council member in order to contribute my own modeling experience and to facilitate the sharing of knowledge among our section members. I want to encourage our section members to take advantage of the vast resources available (such as the podcasts, webcasts, and newsletters) in order to broaden and strengthen their modeling expertise.

If elected, I would propose creating liaison positions to the other SOA sections that tend to have shared topics of interest with the Modeling Section. These liaisons would join other sections' monthly council calls and share any modeling-related discussions with the Modeling Section Council, in order to improve our coordinated efforts to serve our section members.

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Kevin L. Durand, FSA, MAAA
AVP, Actuarial Valuation
Americo Life
Kansas City, MO

Professional Background
Life Actuary with 20 years of modeling experience including pricing models, ALM, asset adequacy/CFT and plan models. In addition, served last three years as Appointed Actuary and currently working as Qualified Actuary for PBR. Prior to career as an actuary, worked in technology including a position as a Microsoft SQL Server Certified Trainer.

Society of Actuaries Experience (Section and committee memberships and participation)
Member of the Financial Reporting, Modeling, and Smaller Insurance Company Sections. Volunteer as a grader and question writer for Individual Life and Annuity Exams.

Other Relevant Volunteer Experience
University of Central Missouri Actuarial Advisory Board - 2019

Why are you interested in leading this section?
My blend of technology, modeling and valuation experiences gives me many areas where I can contribute as a section leader. The actuarial profession has given me an opportunity to utilize my skills and has contributed to my growth as an individual. Serving on the Modeling Section is a perfect fit where I can give back and continue to help the profession thrive. With the rapid change in technology and recent changes in regulations, the Modeling Section is the premier section in the SOA and the section that can provide the most value to members. It is an exciting time and I'm excited for the opportunity to be a part of leadership.

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Ryan Krisac, FSA, MAAA
AVP, Risk Management
Lincoln Financial Group
Radnor, PA

Professional Background
Ryan is a life and annuity actuary with 12 years of professional experience. He has worked in a variety of roles, including valuation, long-term modeling, new product implementation, and most recently model risk management and corporate modeling. He graduated from Penn State in 2008 and attained his FSA designation in 2013. His professional experience includes Penn Mutual Life Insurance Company and Lincoln Financial Group.

Ryan has worked extensively with whole life, term, IUL, ULSG, VAGLB, FIA and payout annuity products. He previously served as Model Steward at Penn Mutual, including an executive report-out on model risk assessments for official company models. Currently at Lincoln, he is developing integrated and dynamic financial projection modeling capabilities to cohesively merge complex projections across the entire enterprise.

During his professional experience, Ryan has led several software conversion efforts, built financial reinsurance models, and provided modeling insights across teams and departments.

Society of Actuaries Experience (Section and committee memberships and participation)
- Presented at the 2017 Valuation Actuary Symposium

- Presented at the 2019 Modeling Excellence Seminar
- Co-authored an article in the spring 2018 edition of The Modeling Platform
- Was interviewed for a Q&A article in the fall 2018 edition of The Modeling Platform

Other Relevant Volunteer Experience
NA

Why are you interested in leading this section?
Modeling is my core area of interest as an actuary. I have been actively involved with the Modeling Section over the past few years, as noted above. I have enjoyed these opportunities to share my knowledge and experience. As a council member, I will advocate for innovative yet practical solutions for the variety of modeling challenges facing actuaries across the SOA. My experience has involved multiple model design strategies, including both "DIY" and vendor-driven solutions. This will help me bring a balanced perspective to addressing how to strive for model efficiency, reliability, accuracy, and transparency.

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Mark P. Stukowski, FSA, MAAA
Vice President & Consulting Actuary
Lewis & Ellis Inc.
Denver, CO

Professional Background
- Almost 25 years of experience in the Life and Annuity industry
- Recent involvement in Prophet financial transformation & implementation projects
- Financial reporting and projections – Stat, GAAP, ALM, Embedded Value, Market Consistent, Pricing Metrics
- Modeling software – Prophet, AXIS, SLOPE, MG-ALFA, PTS/APL, TAS
- Life, annuity and terminal funding agreement pricing
- Valuation
- Actual to expected earnings analysis
- Mergers and acquisitions
- Product development
- Experience studies
- Positions held with Lewis & Ellis, ARC, ING/Voya, Great-West, Milliman and MetLife

Society of Actuaries Experience (Section and committee memberships and participation)
Modeling, Product Development and Financial Reporting Sections

Other Relevant Volunteer Experience
NA

Why are you interested in leading this section?
I'd like to continue making the Modeling Section a forum where actuaries can learn and educate others. I'd like to make it a priority that this section exposes our members to new industry hot topics. I've done modeling work for almost 25 years and hope to share some of my experiences. Having a leadership role will provide me new educational and networking opportunities. I'm at a point in my life where volunteering for the SOA makes sense.

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Winston Hall, FSA, MAAA
Head of Actuarial and Investment Audit
MassMutual
Springfield, MA

Professional Background
I have 20 years of modeling, model governance and assumption governance experience. I began by developing term rider pricing models and illustration systems, became a developer of Tillinghast Actuarial Software (TAS) and TAS in MoSes and went on to design and implement distributive processing and cloud modeling solutions for asset adequacy testing, economic value, risk-based capital, DAC, embedded value and loss recognition testing. Over the last 10 years, I came to appreciate how valuable effective model and assumption governance can be to an organization.

Society of Actuaries Experience (Section and committee memberships and participation)
Modeling Section member
Technology Section member
Smaller Insurance Company Section Council member
Financial Reporting Section member
Investment Section member
Joint Risk Management Section member
Leadership Development Section member
Product Development Section member

Other Relevant Volunteer Experience
Financial Regulatory (FinReg) Task Force member for the AAA
Volunteer Resource Committee Chairperson for the AAA
Actuarial Subgroup of the Institute of Internal Auditors member
Pack 145 Bear Den, Den Leader (Four years)

Why are you interested in leading this section?
First, this profession has given me many blessings. I want to serve and give back to the profession. Because of my extensive modeling background, I believe I can contribute the most by serving in the Modeling Section.

Second, modeling has become a part of almost every actuary's role. However, technology and inexpensive alternative resources are making design and evaluation of fit for purpose more valuable expertise than the building and maintenance of models. I hope to influence the profession to focus on the more valuable modeling expertise.

Third, I want to meet and get to know other actuaries.

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Housseine Essaheb, FSA, CERA, MAAA
Director & Model Validation Lead
Pacific Life
Newport, CA

Professional Background

Housseine Essaheb, a FSA, CERA, and MAAA, currently serves as the Model Validation lead for the Retirement Solutions Division at Pacific Life leading transformation efforts to revolutionize modeling capabilities, enhance analytics and streamline validation efforts across -Valuation, Forecasting, Hedging, Risk Management and Pricing.

Housseine has over a decade of actuarial experience in consulting and insurance supporting the valuation of annuity products, pricing of retirement products, enterprise tax planning, de-risking of pension plans and most recently leading the individual annuity modeling team.

Society of Actuaries Experience (Section and committee memberships and participation)

- SOA Taxation Section Chair & Council Member - October 2015 to September 2018
- Presented on Targeted Improvement implementation on SOA webcast - July 2019
- Co-authored *Need for Speed: How to optimize models for maximal run efficiency* - May 2019
- Presented on panel sharing experience leading an SOA section at ASNY conference - June 2018
- Co-authored *Working Through Uncertainty* - February 2018

Other Relevant Volunteer Experience

NA

Why are you interested in leading this section?

I am running for the position of council member to increase the visibility of the contributions that modeling actuaries make to the profession. While doing so, I strive to enhance education for modeling actuaries to empower them to elevate their careers and to generate the most value to their respective organizations.

I believe we can do this by:

1. Leveraging best practices gleaned from outside the actuarial industry toward emerging technologies and operations.
2. Expanding modelers' sphere of influence and be respected as business partners to end users, key stakeholders and senior management.

I have significant passion for modeling and great deal of respect of the contributions my modeling colleagues bring to the Actuarial profession. If elected, it would be my mission to promote an educational curriculum that is forward looking and focused on developing versatile modeling actuaries.

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Andrei Titioura, FSA, FCIA
Director
Brighthouse Financial
Charlotte, NC

Professional Background
As many modeling actuaries, I have extensive experience in Life and, primary, Annuity models. For 15 years in the actuarial field I have used Milliman, Numerix, Willis Towers Watson, Moody's, AON, Oliver Wyman actuarial software and developed risk, valuation, pricing and mostly ALM models. My experience has been with Fidelity, Transamerica, Willis Towers Watson and currently Brighthouse.

Society of Actuaries Experience (Section and committee memberships and participation)
- Member of Modeling, Technology, Leadership Development and Product Development Sections
- Participated in various SOA working groups
- Participated in Corporate Finance and ERM exam questions writing group

Other Relevant Volunteer Experience
NA

Why are you interested in leading this section?
In a technology driven world the actuarial modeling skills are well utilized in insurance related industries. I want to strengthen the modeling actuarial role in insurance and expand to technology and other data-driven industries.

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