

## **PREDICTIVE ANALYTICS AND FUTURISM**

*(Vote for up to three candidates)*

Joan C. Barrett

Jason Reed

Brent Carpenetti

Stu Alden

Chris Lalonde

Alex Tam

**Joan C. Barrett, FSA, MAAA**  
Consultant  
Axene Health Partners, LLC  
Tolland, CT

### **Professional Background**

I am a consultant with Axene Health Partners, LLC. Recent consulting assignments include underwriting process reviews, consulting on state task forces and expert witness work. Prior to joining Axene, I led the National Accounts Actuarial team at United Healthcare for many years. As part of that role, my team and I worked with Fortune 500 employers in developing their benefit and consumer strategies. As part of that effort, I developed several innovative analytical techniques for measuring risk and consumer activation.

Volunteerism is an integral part of my professional life. One of my proudest accomplishments is the work I did with the Business Analytics Task Force many years ago. That team provided the impetus for major changes in both basic and continuing education. I am also very proud of my work on Initiative 18/11: What Can We Do About the Cost of Health Care? That team sponsored a conference with over 30 health care leaders to discuss the cost of health care and possible solutions. As a result of the conference, the Health Section sponsored several strategic initiatives, including ones on the prescription drug development process and the role of new technology in health care. In case you are wondering, the term "18/11" refers to the fact that the United States spends 18% of its GDP on health care compared to 11% for comparable countries.



I am a Fellow of the Society of Actuaries and a Member of the American Academy of Actuaries. I live in Tolland Connecticut near my children and grandchildren.

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

- Lifetime Volunteer Award Recipient (2020)
- Vice-President, Board of Directors, 2015 to 2017
- Elected Board Member, 2011 to 2014
- Initiative 18/11: What Can We Do About the Cost of Health Care?
- Section Experience
  - Chair, Health Section Council
  - Chair, Education and Research Section Council
  - Board Partner, Health Section Council
  - Board Partner, Predictive Analytics and Futurism Section Council
- Basic Education Experience
  - General Officer, General Insurance Curriculum
  - General Officer, Group and Health Curriculum
- Continuing Professional Development Experience

- Chair, Health Meeting, 2011
- Board Partner, Continuing Professional Development Committee
- Chair, Evolution of the Health Actuary Task Force, chartered by the Health Section Council

**Other Relevant Volunteer Experience**

None

**Why are you interested in leading this section?**

New technologies and data analytical techniques are changing the way we do business across the globe. This presents a challenge to every actuary, from an entry-level student to a CEO. I am running for the Predictive Analytics and Futurism section to help build the knowledge base actuaries need to meet this challenge.

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**Jason Reed, FSA, MS, MAAA**  
**Senior Director, Predictive Analytics**  
**Optum**  
**Boston, MA**

**Professional Background**

15 years of experience applying advanced statistics and data mining techniques to actuarial problems in health insurance. My work centers around finding application of statistical techniques such as quantile regression to build novel solutions to actuarial problems

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

Member of Predictive Analytics Section, 2020-2021. Numerous publications in Health Watch as well as Predictive Analytics Section Newsletter.

**Other Relevant Experience**

None

**Why are you interested in leading this section?**

I have deep statistical experience and a passion for training the next generation of actuaries in advanced statistical methods as well as data science techniques. To stay relevant, actuaries will need to have command of the new algorithms being introduced to our profession by data scientists, so we can evaluate their relevance and shape them. The more we interact with Data Science, the more critical effective collaboration becomes, which necessitates actuarial proficiency in vocabulary and algorithms. I want to work to ensure that our section continues to educate the profession at all levels and for all audiences.

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**Brent Carpenetti, ASA, CERA**  
**Senior Actuary, Risk Management**  
**Hannover Life Reassurance Co. of America**  
**Orlando, FL**

**Professional Background**

In all my pursuits, I have focused on improving the scheduled publication of business intelligence reports that timely inform strategic decision makers.

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

Volunteer:

- Editor, Author: Data Science Journey Map (PAF)

Memberships:

- Predictive Analytics and Futurism
- Technology
- Joint ERM
- Entrepreneurship and Innovation

**Other Relevant Volunteer Experience**

- Former Founder and Treasurer of a competitive travel paintball team.
- Former financial advisor to Mission Volant, a veteran focused charity.

**Why are you interested in leading this section?**

I want to give back to my profession and help those within it better adapt to new technical environments.



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**Stu Alden, FSA, MAAA, FCA**  
**Data Scientist**  
**Socratic Methods**  
**Philadelphia, PA**

**Professional Background**

Health care actuary consulting to large employers (30 years), most recently SVP at Aon in Philadelphia. Currently “retooling” for second career as a data scientist.

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

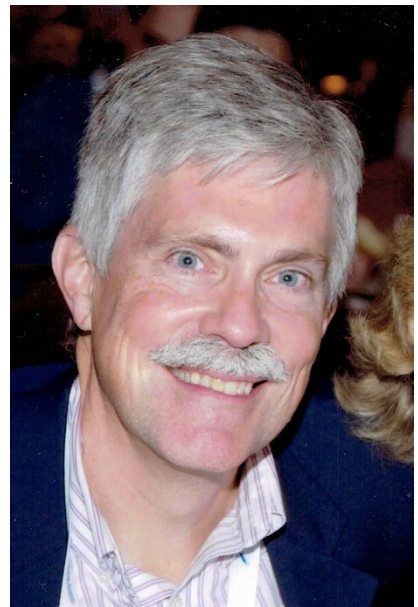
FSA since 1996.

**Other Relevant Volunteer Experience**

- Ongoing volunteering (including Board membership, Annual Meeting Committee, Webinar Committee) with Conference of Consulting Actuaries since 1994.
- Board member of Concerned Actuaries Group.
- Member of Department of Defense Medicare-Eligible Retiree Health Care Fund (MERHCF) Actuarial Board.
- Treasurer of my Home Owners’ Association.

**Why are you interested in leading this section?**

I am concerned that actuarial science is lagging in its adoption of predictive analytics and data science techniques; I know that in my practice area (employee benefits), these developments are almost unknown.



I want to help SOA and its membership demonstrate relevancy by advancing our understanding of these tools and advocating their use wherever appropriate.

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**Chris Lalonde, FSA, CERA, MAAA**  
**VP, Data Analytics**  
**Symetra**  
**Bellevue, WA**

**Professional Background**

Currently in a non-traditional role that aligns closely to the Predictive Analytics and Futurism section. The role includes developing a data analytics team and program that consists of data engineers, business intelligence specialists, actuaries, and data scientists. We operate as internal consultants to drive modernization and innovation across the enterprise.

In addition to the current position, have worked in a wide range of actuarial roles including pricing, product development, and risk management.

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

Have been a Predictive Analytics and Futurism section member for the past three years. Looking forward to the opportunity to be on the section council.



**Other Relevant Experience**

Am a member, volunteer, and climb leader with The Mountaineers, a 13,000-member non-profit in the Pacific Northwest. Safely train and mentor students through a variety of technical outdoor courses.

**Why are you interested in leading this section?**

Over the next ten years there will be significant growth in predictive analytics. It will drive innovation, new products, and new ways to value risk. I believe actuaries are critical to this growth and I can share my experience and knowledge to help accelerate awareness within the actuarial community.

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**Alex Tam, ASA, MAAA**  
**Senior Actuarial Consultant**  
**Ernst & Young**  
**New York, NY**

**Professional Background**

Alex Tam is a Senior in the Insurance and Actuarial Advisory Services practice of Ernst & Young LLP's Financial Services Organization. He has expertise in actuarial modeling with a focus on complex products with nested stochastic. He has extensive experience in development for Artificial Intelligence Machine Learning (AIML) solution and offerings. He has over 8 years of experience in actuarial modeling.

While at EY, he led and developed AIML proxy model for Variable Annuity Fair Value as part solutions for Life & Annuity companies. This model provides high accuracy predictions and visualizations on fair value from nest stochastic calculations. He also led the development of the transformation and process solutions in Python for AIML proxy models solutions.

Prior to joining EY, Alex was an actuarial analyst served as a software developer in Transamerica. Through this experience, he developed in-depth knowledge in software engineering in C# and statistical tools in SQL, R and Python.



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

- Active member of Predictive Analytics and Futurism Section
- Volunteering for organizing Virtual Practical Predictive Analytics Seminar, PAF Hack-A-Thon, and Speculative Fiction Contest
- Looking for opportunities to participate and contribute to the profession

**Other Relevant Experience**

Volunteered to provide actuarial career and STEM learning advice to local high school and college students.

**Why are you interested in leading this section?**

I am interested to be an active section council member and participating in current and future actuarial methodologies and tools for the profession. While advancing my knowledge on such aspect, I want to share my learnings and connect SOA members who have similar passion in the futurism of the actuarial profession.

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