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Research Interests	<ul> <li>Methodological: Predictive Analytics, Machine Learning, St ometry, Lévy Processes, Random Graph Theory, Spatial Point</li> </ul>	
	• <b>Domain</b> : Cyber risk, Smart contracts, Crime, Autonomous Sy Risk, Natural Hazards, Property&Casualty, Health Insurance,	
CURRENT ACADEMIC	Associate Professor (Tenured), Arizona State University, USA School of Mathematics and Statistical Sciences	August 2023 – Present
Appointments	Affiliated Faculty Member, Arizona State University, USA Watts College of Public Service and Community Solutions Center for Emergency Management and Homeland Security	July 2020 – Present
	Affiliated Faculty Member, Arizona State University, USA W.P. Carey School of Business Center for AI and Data Analytics (AIDA) for Business and S	March 2024 – Present
	Adjunct Associate Professor, McMaster University, Canada Department of Mathematics and Statistics	July 2024 – Present
Previous Academic	Assistant Professor, Arizona State University, USA School of Mathematics and Statistical Sciences	ugust 2017 – August 2023
Appointments	Adjunct Assistant Professor, McMaster University, Canada Assistant Professor, McMaster University, Canada Faculty of Science, Department of Mathematics and Statistics Contractually Limited Appointment	July 2019 – June 2024 July 2014 – July 2017
		ptember 2013 – June 2014
ACADEMIC VISITS	January, 2012 - October, 2012, University of Pennsylvania, The August, 2011 - January, 2012, Temple University, USA	e Wharton School, USA
Education	<b>University of Turin</b> Department of Economic, Social, Mathematical and Statistical Scier	nces, Turin, Italy
	Ph.D. Economics - Statistics and Applied Mathematics, March 2	013
	<ul> <li>Thesis Title: Topics in Probability and Stochastic Modeling in Insurance, Finance and Combinatorial Optimiza</li> <li>Supervisor: Associate Professor Elena Vigna</li> </ul>	
	<ul> <li>Committee: Prof. Paolo Ghirardato, Prof. Fausto Gozzi, Prof.</li> </ul>	. Michele Vanmaele
	University of Belgrade, Faculty of Economics, Belgrade, Serbia (joint degree with Hautes Études Commerciales (HEC) Paris, M.S. Economics, November 2006	France)
	University of Belgrade, School of Electrical Engineering, Belgrade Dipl. Ing. Computer Science and Engineering, June 2004	, Serbia

**Notational considerations**: Unless otherwise stated the author list is given in alphabetical order indicating equal or similar contributions to the research project. With superscript 1 the first author is denoted, with superscript 2 the second... indicating larger contributions to the project. Additional superscript us/gs designates an undergraduate/graduate student (current or at the time of paper submission) while an underline denotes the corresponding author. Where available, the most current impact factors were given. **Publication context** : My publications in academic journals related to Actuarial Science<sup>1</sup> and closely related topics reflect my passion for mathematical modeling of risk. In pursuit of interdisciplinary research, my publications in other journals reflect my vision to work on practical, transdisciplinary risk-related theoretical and methodological questions grounded in mathematics and statistics. My research in emerging landscapes of risk continuously grows my skills both as a mathematician and as a risk modeler while advancing me as an collaborator to my students and co-authors. Google Scholar Profile Link: Petar Jevtic. As of December 10th, 2024: Total Citations = 325, h-index = 9, and i10-index = 9. [27] Stefano Chiardona<sup>gs</sup>, Petar Jevtić and Nicolas Lanchier. "Cyber Risk Loss Distribution for Various Scale Drone Delivery Systems" (Accepted. In press: Risk Sciences) [26] Chiardona Stefano<sup>1,gs</sup>, Jevtić Petar, Lanchier Nicolas and Pesic Sasha."Framework for Cyber Risk Loss Distribution of Client-Server Networks: A Bond Percolation Model and Industry Specific Case Studies" Applied Stochastic Models in Business and Industry (2024) [25] Chiardona Stefano<sup>1,gs</sup>, Jevtić Petar and Sterner Beckett. "MPAT: Modular Petri Net Assembly Toolkit" SoftwareX (2024) [24] Cupido Kyran, Jevtić Petar, Regis Luca and Zhou Kenneth. "Spatial natural hedging: a general framework with application to the mortality of U.S. states" Scandinavian Actuarial Journal (2024) [23] Cupido Kyran<sup>1,gs</sup>, Jevtić Petar<sup>2</sup> and Boonen Tim<sup>3</sup>. "Space, Mortality, and Economic Growth" Journal of Forecasting (2024) [22] Boyle Esther<sup>1,gs</sup>, Jevtić Petar<sup>2</sup> and Regis Luca<sup>3</sup> "Matrix Variate Distributions as a Tool for Insurers and their Application to Natural Hazard Loss Modeling" Variance (2024) [21] Cahyaningtias Sari<sup>1,gs</sup>, Jevtić Petar, Pirvu Traian, and Tran Tuan, "Minimizing bankruptcy probability of a life insurer - some analytical considerations" (2023), U.P.B. Sci. Bull., Series A, Vol. 85, Iss. 4, 91-100. [20] Qin Chengwei<sup>1,gs</sup>, Jevtić Petar<sup>2</sup> and Zhou Hongjuan<sup>3</sup>. "Multi-population Mortality Modelling with Lévy Processes" Decisions in Economics and Finance (2023) [19] Chiardona Stefano<sup>1,gs</sup>, Jevtić Petar and Lanchier Nicolas."Framework for Cyber Risk

- Loss Distribution of Hospital Infrastructure: Bond Percolation on Mixed Random Graphs Approach" *Risk Analysis* (2023)
  [18] La Salle Axel<sup>1,gs</sup>, Kumar Anil<sup>2,gs</sup>, Jevtić Petar<sup>3</sup> and Boscovic Dragan<sup>4</sup>. "Joint Modeling of Hyperledger Fabric and Sybil attack: Petri Net approach" *Simulation Modelling*
- Practice and Theory 122 (2023): 102674
  [17] Martinez Wilmer<sup>1,gs</sup>, Carvalhaes Thomaz<sup>2,gs</sup>, Jevtić Petar<sup>3</sup> and Reddy T. Agami<sup>4</sup>. "A Framework for Quantifying Disaster Level Social Hardship: The case of Hurricane Maria

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in Puerto Rico" Natural Hazards 116, 2033-2068 (2022)

<sup>&</sup>lt;sup>1</sup>Insurance: Mathematics and Economics is a premier journal in Actuarial Science. Scandinavian Actuarial Journal and European Actuarial Journal are a highly reputable journals in Actuarial Science.

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- [16] Boyle Esther<sup>1,gs</sup>, Inanlouganji Alireza<sup>2,gs</sup>, Carvalhaes Thomaz<sup>3,gs</sup>, Jevtić Petar<sup>4</sup>, Pedrielli Giulia<sup>5</sup> and Reddy T. Agami<sup>6</sup>. "Social Vulnerability and Power Loss Mitigation: A Case Study of Puerto Rico" International Journal of Disaster Risk Reduction 82 (2022): 103357
- [15] Jevtić Petar and Lanchier Nicolas. "Percolation Framework For Loss Distribution Of Smart Contract Risks" Advances in Complex Systems 24.07n08 (2021): 2150014
- [14] Jevtić Petar and Regis Luca. "A Square-Root Factor-Based Multi-Population Extension of the Mortality Laws" *Mathematics* 9.19 (2021)
- [13] **Jevtić Petar**, Kwak Minsuk and Pirvu Traian. "Practical Partial Equilibrium Framework for Pricing of Mortality-Linked Instruments in Continuous Time" *European Actuarial Journal* (2021).
- [12] Cupido Kyran<sup>1,gs</sup>, Jevtić Petar<sup>2</sup> and Paez Antonio<sup>3</sup>. "Spatial Patterns of Mortality in the United States: A Spatial Filtering Approach" *Insurance: Mathematics and Economics* 95 (2020): 28-38.
- [11] Cupido Kyran<sup>1,gs</sup>, Fotheringham A. Stewart<sup>2</sup> and Jevtić Petar<sup>3</sup>. "Local Modeling of U.S. Mortality Rates: A Multiscale Geographically Weighted Regression Approach", *Population, Space and Place* 27.1 (2021): e2379
- [10] Jevtić Petar and Lanchier Nicolas. "Dynamic structural percolation model of loss distribution for cyber risk of small and medium-sized enterprises for tree-based LAN topology." *Insurance: Mathematics and Economics* 91 (2020): 209-223.
- [9] Počuča Nikola<sup>1,gs</sup>, <u>Jevtić Petar</u><sup>2</sup>, McNicholas Paul<sup>3</sup> and Miljkovic Tatjana<sup>4</sup>."Modeling Frequency and Severity of Claims with the Zero-Inflated Generalized Cluster-Weighted Models" *Insurance: Mathematics and Economics* 94 (2020): 79-93.
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- [7] Jevtić Petar and Regis Luca. "A continuous-time stochastic model for the mortality surface of multiple populations." *Insurance: Mathematics and Economics* 88 (2019): 181-195.
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REFEREED CONFERENCE PAPERS (RCP)	[2] Robert Dodge <sup>1,gs</sup> , Giulia Pedrielli <sup>2</sup> and Petar Jevtić <sup>3</sup> , "A Testing Based Approach for Security Analysis of Smart Semiconductor Systems," 2023 Winter Simulation Conference (WSC), San Antonio, TX, USA, 2023, pp. 2286-2297.
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TECHNICAL Reports (TR)	[7] Chiaradonna Stefano <sup>gs</sup> , <u>Jevtić Petar</u> (PI) and Boscovic Dragan (Co-PI) "Zero-Knowledge Proofs: Emerging Opportunities for the Insurance Industry" Oct. 2023, The Society of Actuaries (SOA).
	[6] Jacobs, D., Jevtić, P., Gall, M., & Bao, T. (2022) Cybersecurity meta-analysis: Investiga- tion of cybersecurity assessment for USAID beneficiaries (p.81). Chicago, IL: Research Technical Assistance Center and NORC
	[5] Wilmer Martinez <sup>gs</sup> , Kyran Cupido (Co-PI), Jevtić Petar (PI) and Su Jinaxi (Co-PI). "(So- cial) Determinants of the Demand for Life Insurance" Aug. 2022, SOA Research Institute.
	[4] Boyle Esther <sup>gs</sup> , Sterner Beckett (Co-PI), Jevtić Petar (PI). "Emerging Risks in the Health Sector: Changing Species Distributions and Seasonality". Jul. 2021, The Society of Ac- tuaries (SOA).
	[3] Boyle Esther <sup>gs</sup> , Pesic Sasa, Jevtić Petar (PI), Boscovic Dragan (Co-PI)."Peer-to-Peer In- surance: Blockchain Implications". Mar. 2021, The Society of Actuaries (SOA).
	[2] Boyle Esther <sup>gs</sup> , Sterner Beckett (Co-PI), Kinzig Ann, Jevtić Petar (PI)."New Fire Hazard Risk from Policy Responses to Climate Change". Feb. 2021, The Society of Actuaries (SOA).
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	[3] Stefano Chiardona <sup>gs</sup> , Delos Santos, Cody <sup>gs</sup> , Kyran Cupido and Petar Jevtić. "Determi- nants of Spatio-Temporal Patterns of Cybercrimes in the USA: Implications for Cyberse- curity Personnel Resource Allocation" (Submitted: Journal of Homeland Security and Emergency Management)
	[2] Stefano Chiardona <sup>gs</sup> , Petar Jevtić and Nicolas Lanchier. "Framework for Cyber Risk Loss Distribution of Multi-Tenant Smart Building Networks: A Bond Percolation Approach" (Submitted: North American Actuarial Journal)
	<ol> <li>Delos Santos, Cody<sup>1,gs</sup> and Boyle, Esther<sup>2,gs</sup> and Jevtić, Petar and Gall, Melanie, "Effects of Natural Hazards on Spatio-Temporal Patterns of (Violent) Crime in the United States" (Under revision: <i>American Journal of Criminal Justice</i>)</li> </ol>

WORKING [12] Esther Boyle<sup>gs</sup>, Stefano Chiardona<sup>gs</sup>, and Petar Jevtić. "Stochastic Cyber Vulnerability **P**ROJECTS (WP) Assessment of Power Network Infrastructure in Puerto Rico" [11] Sari Cahyaningtias<sup>gs</sup>, Yiannis Kamarianakis, Petar Jevtić, Kyran Cupido. "Multi-population Mortality Modeling with Space-Time-Age Group Filtering: Case Study of USA" [10] Sari Cahyaningtias<sup>gs</sup>, Petar Jevtić, Luca Regis and Kenneth Zhou. "Mortality Modeling Framework to Account for Migration Flows" [9] Trevor Reckell<sup>gs</sup>, Beckett Sterner, Petar Jevtić, Reggie Davidrajuh. "A Numerical Comparison of Petri Net and Ordinary Differential Equation SIR Component Models" [8 Swathi Punathumkandi, Harsha Priyatham Yarravarapu, Dragan Boscovics and Petar Jevtić. "Petri Net Model for Hyperledger Fabric - A Performance Analysis" [7] Gall Melanie, Boyle Esther<sup>gs</sup>, Petar Jevtić, and Cutter L. Susan", "U.S. Disaster Loss Normals" [6] Esther Boyle<sup>gs</sup>, Melanie Gall and Petar Jevtić. "Natural Hazards and Migration in the United States" [5] Esther Boyle<sup>gs</sup>, Melanie Gall, Petar Jevtić and Susan Cutter. "Development and Stationarity Assessment of Normalized County Level Natural Hazard Losses" [4] Neil Bhardwaja<sup>gs</sup>, Kenneth Zhou and Petar Jevtić. "Examining the Effects of Individual Characteristics on Health Transitions and Long-Term Care Insurance" [3] Deng Xiaoying<sup>1,gs</sup>, Boyle Esther<sup>2,gs</sup>, Jevtić Petar<sup>3</sup>, McNicholas Paul<sup>4</sup> and Miljkovic Tatjana<sup>5</sup>. "Mixture of Multiple Regressions with Censored Data for Modeling Veteran's Benefit Payments" [2] Cupido Kyran, Pesic Sasha, Petar Jevtić and Nedelikovic Djordje. "Traffic accidents and spatial features of built environment: Case study of Denver, Colorado" [1] Xiang Gao<sup>1,gs</sup>, Hyndman Cody<sup>2</sup>, Pirvu Traian<sup>3</sup> and Jevtić Petar<sup>4</sup>."Optimal annuitization post-retirement with labor income"

**P**ATENTS (P) [6] United States Provisional Patent Application • Number: 63/686,757 • Date of Submission: on August 24th, 2024 • Title of Invention: Cyber Risk Loss Distribution for Various Scale Drone Delivery Systems · Inventors: Chiaradonna Stefano, Jevtić Petar and Lanchier Nicolas [5] United States Provisional Patent Application • Number: 055743-761848 • Date of Submission: on June 16th, 2022 • Title of Invention: Systems and Methods for a Framework for Cyber Risk Loss Distribution of Client-Server Networks - A Bond Percolation Model and Industry Specific Case Studies Infrastructure: Bond Percolation on Mixed Random Graphs Approach Inventors: Chiaradonna Stefano, Jevtić Petar, Lanchier Nicolas, and Pesic Sasa [4] United States Patent

- Patent Number: US20240127363A1
- Date of Submission: on April 8th, 2022
- Title of Invention: Framework for Cyber Risk Loss Distribution of Hospital Infrastructure: Bond Percolation on Mixed Random Graphs Approach
- Inventors: Petar Jevtić, Stefano Chiaradonna and Nicolas Lanchier
- [3] United States Patent
  - Patent Number: US11354752B2
  - Date of Patent: Jun 7th, 2022
  - PCT Filed: September 13th, 2019
  - Title of Invention: "Systems And Methods For A Simulation Program Of Percolation Model For The Loss Distribution Caused By A Cyber Attack"
  - Inventors: Petar Jevtić and Nicolas Lanchier
- [2] United States Provisional Patent Application
  - Number: 62/779,870
  - Date of Submission: December 14th, 2018
  - Title of Invention: "Systems And Methods of a Percolation Model for the Loss Distribution Caused By a Cyber-Attack, or Contagion-Like Failure, of a Smart City Network"
  - · Inventors: Petar Jevtić, Nicolas Lanchier and Aaron Bergstrom
- [1] United States Provisional Patent Application
  - Number: 62/821,720
  - Date of Submission: March 21st, 2019
  - Title of Invention: "Systems and methods for a simulation program of percolation model for the loss distribution of smart contracts caused by
    - a cyber attack or contagious failure"
  - Inventors: Petar Jevtić and Nicolas Lanchier

External Grants (EG)	<ul> <li>[16] Granting body: Department of Homeland Security Criminal Investigations and Network Analysis Center (CINA)</li> <li>Date: January 2024 - June 2024</li> <li>Project Title: "Determinants of Spatio-Temporal Patterns Of Cybercrimes across United States"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 100%)</li> <li>Grant amount: 129,968 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[15] Granting body: The Society of Actuaries (SOA)</li> <li>Date: July 2023 - October 2023</li> <li>Project Title: "Zero-Knowledge Proofs: Emerging Opportunities for the Insurance Industry"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 50%), Dr. Dragan Boscovic (Co-PI)</li> <li>Grant amount: 9,998 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[14] Granting body: Casualty Actuarial Society (CAS)</li> <li>Date: April 2023 - Present</li> <li>Project Title: "Joint Loss Model for Convective Storm Property Damage: Matrix Variate Time Series Approach"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 50%), Dr. Melanie Gall (Co-PI)</li> <li>Grant amount: 20,667 USD</li> <li>Status: In progress.</li> </ul>
	<ul> <li>[13] Granting body: HHS-NIH: National Institute of General Medical Sciences (NIGMS)</li> <li>Date: March 2023 - February 2027</li> <li>Project Title: "Spatial, Multi-Host Petri Net Models for Zoonotic Disease Forecasting"</li> <li>Roles: Dr. Petar Jevtić (Co-PI) (REC 30%), Dr. Beckett Sterner (PI) and Nathan Upham (Co-PI)</li> <li>Grant amount: 1,128,364 USD</li> <li>Status: In progress.</li> </ul>
	<ul> <li>[12] Granting body: Department of Homeland Security Criminal Investigations and Network Analysis Center (CINA)</li> <li>Date: August 2022 - October 2023</li> <li>Project Title: "Effects of Natural Disasters on Spatio-Temporal Patterns Of Crime Types in the United States"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 50%), Dr. Malenie Gall (Co-PI)</li> <li>Grant amount: 96,090 USD</li> <li>Status: Completed.</li> </ul>

EXTERNAL GRANTS (EG) (CONTINUED)	<ul> <li>[11] Granting body: Casualty Actuarial Society (CAS) <ul> <li>Date: June 2022 - Present</li> <li>Project Title: "Leveraging machine learning and SHELDUS data to discern daily impact of disaster losses on mortgage default investment"</li> <li>Roles: Dr. Petar Jevtić (sub-award PI) (REC 25%), Dr. Malenie Gall (sub-award Co-PI) Dr. Jianxi Su (Co-PI Purdue University) Dr. Antik Chakraborty (PI Purdue University)</li> <li>Grant amount: 7,999 USD (subaward, 50% of total grant allocation)</li> <li>Status: In progress.</li> </ul> </li> </ul>
	<ul> <li>[10] Granting body: US Agency for International Development (USAID)</li> <li>Date: September 2021 - July 2022</li> <li>Project Title: "Cybersecurity meta-analysis"</li> <li>Roles: Dr. Petar Jevtić (Co-PI) (REC 33%), Dr. Youzhi Bao (PI) (ASU), Dr. Melanie Gall (Co-PI) (ASU)</li> <li>Grant amount: 59,655 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[9] Granting body: The Society of Actuaries (SOA)</li> <li>Date: July 2021 - May 2022</li> <li>Project Title: "(Social) Determinants of the Demand for Life Insurance"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 100%) (\$8,495 subaward to Dr. Jianxi Su, Purdue University)</li> <li>Grant amount: 28,732 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[8] Granting body: Casualty Actuarial Society (CAS)</li> <li>Date: May 2021 - present</li> <li>Project Title: "Matrix Variate Distributions as a Tool for Insurers and their Application to Natural Hazard Loss Modeling"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 100%)</li> <li>Grant amount: 18,170 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[7] Granting body: National Science Foundation (NSF)</li> <li>Date: October 2020 - January 2024</li> <li>Project Title: "SaTC: CORE: Medium: Self-Adaptive Cyber Risk Management via Machine to Machine Economy" CNS-2000792</li> <li>Roles: Dr. Petar Jevtić (Co-PI) (REC 20%), Prof. Dragan Boscovic (PI) (ASU) Dr. Giulia Pedrielli (Co-PI) (ASU), Dr. Youzhi Bao (Co-PI) (ASU) Dr. Nicolas Lanchier (Co-PI) (ASU)</li> <li>Grant amount: 750,000 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[6] Granting body: Miscellaneous Federal Government Agencies (Confidential)</li> <li>Date: July 2020 - June 2021</li> <li>Project Title: "Cybersecurity Considerations for Blockchain"</li> <li>Roles: Dr. Petar Jevtić (Co-PI) (REC 50%), Prof. Dragan Boscovic (PI) (ASU)</li> <li>Grant amount: 150,000 USD</li> <li>Status: Completed.</li> </ul>

EXTERNAL GRANTS (EG) (CONTINUED)	<ul> <li>[5] Granting body: The Society of Actuaries (SOA)</li> <li>Date: January 2021 - May 2021</li> <li>Project Title: "Emerging Risks in the Health Sector from Changing Species Distributions and Seasonality"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 50%), Dr. Becket Sterner (Co-PI) (ASU)</li> <li>Grant amount: 9,197 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[4] Granting body: The Society of Actuaries (SOA)</li> <li>Date: September 2019 - August 2020</li> <li>Project Title: "Peer-to-Peer Insurance – Blockchain Implications"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 50%) Prof. Dragan Boscovic (Co-PI) (ASU)</li> <li>Grant amount: 52,457 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[3] Granting body: The Society of Actuaries (SOA)</li> <li>Date: September 2019 - December 2020</li> <li>Project Title: "New Fire Hazard Risk from Policy Responses to Climate Change"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 50%), Dr. Becket Sterner (Co-PI) (ASU)</li> <li>Co-Author on the project: Prof. Ann Kinzig (ASU)</li> <li>Grant amount: 9,200 USD</li> <li>Status: Completed.</li> </ul>
	<ul> <li>[2] Granting body: The Society of Actuaries (SOA)</li> <li>Date: September 2018 - October 2019</li> <li>Project Title: "Loss modeling for rollover in autonomous vehicles"</li> <li>Roles: Dr. Petar Jevtić (PI) (REC 50%) Dr. Yan Chen (Co-PI) (ASU)</li> <li>Grant amount: 35,745 USD</li> <li>Status: Completed.</li> </ul>
	<ol> <li>Granting body: Montreal Institute of Structured Finance and Derivatives         <ul> <li>Date: September 2014 - September 2015</li> <li>Project Title: "Securitization, Pricing, and Management of Longevity Risks and Derivatives"</li> <li>Roles: Dr. Petar Jevtić (25% of funds) (Co-PI), Dr. Traian A. Pirvu (PI), Dr. Cody B. Hyndman (Co-PI), Dr. Patrice Gaillardetz (Co-PI)</li> <li>Grant amount: 20,000 CAD</li> <li>Status: Completed.</li> </ul> </li> </ol>
Internal Grants/Gifts	<ul> <li>[2] Research Gift: VizLore LLC</li> <li>Date: June 2022 - present</li> <li>Purpose: Unrestricted research funds gift.</li> <li>Roles: Dr. Petar Jevtić (PI) (100% of funds)</li> <li>Gift amount: 10,000 USD</li> </ul>
	<ul> <li>[1] Granting body: ASU, Center for Assured and Scalable Data Engineering (CASCADE)</li> <li>Date: May 2018 - February 2019</li> <li>Project Title: "Smart contract insurance"</li> <li>Roles: Dr. Petar Jevtić (PI) (100% of funds) and Dr. Michael Metel</li> <li>Grant amount: 10,000 USD</li> <li>Status: Completed</li> </ul>

CONTRIBUTED CONFERENCE TALKS (CCT)	28] December 10–14, 2023, Washington D.C., USA, 2023 Society for Risk Analysis Annual Meeting, "Cyber Risk Loss Distribution of Drone Delivery Systems: A Study of Ama- zon Drone Deliveries in College Station, TX" by Jevtić, Chiaradonna and Lanchier
	27] Jul 04–07, 2023, Heriot-Watt University, Edinburgh, UK, 26th (2023) International Congress on Insurance: Mathematics and Economics, "Cyber Risk Loss Distribution of Drone Delivery Systems: A Study of Amazon Drone Deliveries in College Station, TX" by Jevtić, Chiaradonna and Lanchier
	26] August 3-6, 2022, University of Illinois at Urbana-Champaign, USA, 57th Actuarial Re- search Conference, "Framework for Cyber Risk Loss Distribution of Hospital Infras- tructure: Bond Percolation on Mixed Random Graphs Approach" by Jevtić, Chiaradonna and Lanchier
	25] July 12–15, 2022, Lingnan College, Sun Yat-sen University, Macquarie Business School, Macquarie University, 25th (2022) International Congress on Insurance: Mathematics and Economics, "Framework for Cyber Risk Loss Distribution of Hospital Infrastruc- ture: Bond Percolation on Mixed Random Graphs Approach" by Jevtić, Chiaradonna and Lanchier (Zoom presentation)
	<ul> <li>24] June 9–10, 2022, Rabat, Morocco, 18th International Conference on Pension Insurance and Savings, "Space, Mortality and Economic Growth" by Jevtić, Cupido and Boonen (Zoom presentation)</li> </ul>
	<ul> <li>April 20-22, 2022, University of Salerno, Italy, <i>Tenth International Hybrid Conference on Mathematical And Statistical Methods For Actuarial Sciences And Finance - MAF2022</i>, "Framework for Cyber Risk Loss Distribution of Hospital Infrastructure: Bond Percolation on Mixed Random Graphs Approach" by Jevtić, Chiaradonna and Lanchier (Zoom presentation)</li> </ul>
	22] August 19-21, 2021, DePaul University, USA, 56th Actuarial Research Conference, "Dy- namic Structural Percolation Model of Loss Distribution for Contagious Failures in Vehicle-to-Vehicle Collaboration for Freeway Space Monetization" by Jevtić, Pesic and Lanchier (Zoom presentation)
	21] July 5-9, 2021, Munich, Germany, 24rd International Congress on Insurance: Mathe- matics and Economics (IME) 2021, "Dynamic Structural Percolation Model of Loss Distribution for Contagious Failures in Vehicle-to-Vehicle Collaboration for Freeway Space Monetization" by Jevtić, Pesic and Lanchier (Zoom presentation)
	20] August 20-24, 2020, Hong Kong, PRC, 2020 IEEE 16th International Conference on Automation Science and Engineering (CASE), "A Simulation Framework for Service Loss of Power Networks under Extreme Weather Events: A Case of Puerto Rico" (video presentation)
	<ul> <li>August 10-12, 2020, Nebrasca-Lincoln, USA, 55th Actuarial Research Conference (ARC),</li> <li>"Dynamic Structural Percolation Model of Loss Distribution in Social Networks Based on Erdős-Rényi Graphs" (Zoom presentation) by Jevtić and Lanchier</li> </ul>
	18] August 14-17, 2019, Indianapolis, USA, <i>54th Actuarial Research Conference (ARC)</i> , "Dy- namic structural percolation model of loss distribution for cyber risk of smart contracts on random tree-stars graphs" by Jevtić and Lanchier
	17] July 10-12, 2018, Munich, Germany, 23rd International Congress on Insurance: Mathematics and Economics (IME) 2019, "Dynamic structural percolation model of loss distribution for cyber risk of smart contracts on random tree-stars graphs" by Jevtić and Lanchier (video presentation)

CONTRIBUTED CONFERENCE TALKS (CCT)	[16] July 15-18, 2018, Sydney, Australia, 22th International Congress on Insurance: Mathe- matics and Economics (IME) 2018, "A Structural Model Of Cyber Risk Aggregate Loss Distribution Of Medium Size Enterprises" by Jevtić and Lanchier
(Continued)	[15] June 4-8, 2018, Berlin, Germany, 31st International Congress of Actuaries, "Longevity bond pricing in equilibrium" by Jevtić, Kwak and Pirvu
	[14] September 21-22, 2017, Taipei, ROC Taiwan, Thirteenth International Longevity Risk and Capital Markets Solutions Conference, "Longevity bond pricing in equilibrium" by Jevtić, Kwak and Pirvu
	[13] July 3-5, 2017, Vienna, Austria, 21th International Congress on Insurance: Mathematics and Economics (IME) 2017, "Longevity bond pricing in equilibrium" by Jevtić, Kwak and Pirvu
	<ul> <li>[12] December 3-5, 2016, Niagara Falls, Canada, 2016 Winter Canadian Mathematical Society Meeting, "The joint mortality of couples in continuous time" by Jevtić and Hurd</li> </ul>
	[11] October 14-16, 2016, Niagara Falls, Canada, International Conference on Statistical Dis- tributions and Applications, "The joint mortality of couples in continuous time" by Jevtić and Hurd
	[10] September 29-30, 2016, Chicago, USA, Twelfth International Longevity Risk and Capital Markets Solutions Conference, "The joint mortality of couples in continuous time" by Jevtić and Hurd
	[9] July 25-27, 2016, Atlanta, USA, 20th International Congress on Insurance: Mathematics and Economics (IME) 2016, "The joint mortality of couples in continuous time" by Jevtić and Hurd
	[8] August 3-7, 2015, Nairobi, Kenya, 3rd Strathmore International Mathematics Conference (SIMC 2015), "A continuous-time model for the mortality surface of multiple popula- tions" by Jevtić and Regis
	[7] June 24-26, 2015, Liverpool, UK, 19th International Congress on Insurance: Mathemat- ics and Economics (IME) 2015, "A continuous-time model for the mortality surface of multiple populations" by Jevtić and Regis
	[6] December 5-8, 2014, Hamilton, Canada, 2014 CMS Winter Meeting, "Assessing the solvency risk of insurance portfolios via a continuous time cohort model" by Jevtić and Regis
	[5] June 17-20, 2014, Bogota, Colombia, <i>First International Congress on Actuarial Science</i> <i>and Quantitative Finance, Colombia</i> , "Assessing the solvency risk of insurance portfo- lios via a continuous time cohort model" by Jevtić and Regis
	[4] May 29 - June 1, 2014, Samos, Greece, 8th Conference in Actuarial Science and Fi- nance, "Assessing the solvency risk of insurance portfolios via a continuous time cohort model" by Jevtić and Regis
	[3] February 6-7, 2014, Brussels, Belgium, <i>Actuarial and Financial Mathematics Conference</i> , "Assessing the solvency risk of insurance portfolios via a continuous time cohort model" by Jevtić and Regis
	[2] January 27 - February 1, 2013, Ascona, Switzerland, Perspectives on Actuarial Risks in Talks of Young Researchers, "Mortality Surface by Means of Continuous Time Cohort Models" by Jevtić, Luciano and Vigna
	[1] September 7-8, 2012, Waterloo, Canada, Eighth International Longevity Risk and Cap-

*ital Markets Solutions Conference*, "Mortality Surface by Means of Continuous Time Cohort Models" by Jevtić, Luciano and Vigna

INVITED TALKS EXTERNAL (ITE)	[18] December 9th, 2024, WEB3SEC 2024 - Workshop Encouraging Building Better Blockchain Security. Held in conjunction with the Annual Computer Security Applications Confer- ence (ACSAC). "Petri Net Modeling for Cybersecurity Modelling of Distributed Sys- tems - Interplay between Machine Learning, Performance Analysis and Intrusion De- tection"
	<ul> <li>[17] April 14, 2023, 4th UCSB InsurTech Summit. "Structural Probabilistic Modeling for Cyber Risk: Random Graph and Bond Percolation Approach"</li> </ul>
	[16] November 15, 2021, <i>Mid Atlantic Actuarial Club</i> . "Emerging Risks in the Health Sector: Changing Species Distributions and Seasonality" by Jevtić, Boyle and Lanchier
	[15] June 22, 2021, CRISP/ERIC Webinar - Pathways for Resilient Infrastructure of Islanded Communities: A Science Driven Approach "Pathways to more Resilient Communities: Assessing Current and Future Resilient Power Infrastructure of Islanded Communities" by Jevtić et al.
	[14] July 29, 2020, National University of Singapore, Centre for Maritime Studies, Centre for Next Generation Logistics Faculty of Engineering, Centre of Excellence in Modelling and Simulation for Next Generation Ports Faculty of Engineering, <i>Webinar</i> , "Percola- tion Framework For Loss Distribution Of Smart Contract Risks" by Jevtić and Lanchier
	[13] February 28, 2019, McMaster University, Canada, MacData Institute, Seminar, "Spatial Patterns of Mortality in the United States: A Spatial Filtering Approach" by Cupido, Jevtić and Paez
	[12] January 29, 2019, Purdue University, USA, Department of Statistics, Seminar, "A Struc- tural Model of Loss Distribution for Cyber Risk of Medium Size Enterprises" by Jevtić and Lanchier
	[11] September 14, 2018, University of Illinois at Urbana-Champaign, USA, School of Mathematics, <i>IRisk Lab Seminar</i> , "A Structural Model of Loss Distribution for Cyber Risk of Medium Size Enterprises" by Jevtić and Lanchier
	[10] July 19, 2018, Commonwealth Scientific and Industrial Research Organization (CSIRO), Melbourne, Australia, <i>Seminar</i> , "A Structural Model of Loss Distribution for Cyber Risk of Medium Size Enterprises" by Jevtić and Lanchier
	[9] March 9, 2018, Queen's University Belfast, Queen's Management School, Centre for Health Research, Northern Ireland, UK, <i>Seminar</i> , "Estimating Veterans Health Benefit Grants Using the Generalized Linear Mixed Cluster-Weighted Model with incomplete Data" by Jevtić, X. Deng, P. McNicholas and T. Miljkovic
	[8] November 17, 2017, University of Melbourne, Australia, Faculty of Business and Eco- nomics, <i>Seminar</i> , "Longevity bond pricing in equilibrium" by Jevtić, Kwak and Pirvu
	[7] November 9, 2017, UNSW, Australia, The School of Risk and Actuarial Studies, <i>Seminar</i> , "Longevity bond pricing in equilibrium" by Jevtić, Kwak and Pirvu
	[6] October 13, 2017, University of Texas at El Paso, USA, College Of Business Administra- tion, <i>Seminar</i> , "Longevity bond pricing in equilibrium" by Jevtić, Kwak and Pirvu
	[5] February 7, 2017, York University, Canada, Department of Mathematics and Statistics, <i>Colloquia</i> , "The joint mortality of couples in continuous time" by Jevtić and Hurd
	[4] October 20, 2016, Miami University, USA, Department of Statistics, <i>Invited Speaker Series</i> , "The joint mortality of couples in continuous time" by Jevtić and Hurd
	[3] October 16, 2015, Concordia University, Canada, <i>Séminaire de Mathématiques Actuar- ielles et Financières</i> , "A continuous-time model for the mortality surface of multiple populations" by Jevtić and Regis

INVITED TALKS EXTERNAL (ITE)	[2] August 21, 2015, HEC Lausanne, Switzerland, DSA Seminar, "A continuous-time model for the mortality surface of multiple populations" by Jevtić and Regis
(Continued)	[1] September 10, 2013, Belgrade, Serbia, <i>Mathematical Institute SANU</i> , "Two example applications of the differential evolution algorithm in finance and insurance"
Invited Talks Internal (ITI)	[10] January 30th, 2024, ASU, W.P. Carey School of Business, "Ideation Breakfast: A Discussion on Blockchain", joint with Dragan Boscovic
	[9] October 28th, 2022, ASU, School of Mathematical and Statistical Sciences, UNISON/ASU Stochastic Modeling Seminar, "Framework for Cyber Risk Loss Distribution of Hospital Infrastructure: Bond Percolation on Mixed Random Graphs Approach"
	[8] March 2nd, 2022, ASU, School of Mathematical and Statistical Sciences, <i>Bridge To Research Seminar</i> , "Framework for loss distribution of the operational risk of vehicle-to-vehicle cooperation to marshal traffic via monetization of highway space"
	[7] November 17, 2021, ASU, School of Mathematical and Statistical Sciences, <i>Casualty Ac-</i> <i>tuaries of The Desert States (CADS)</i> . "A Dependence Model for Floods and Wildfires"
	[6] October 23, 2020, ASU, School of Computing, Informatics, and Decision Systems Engineering, <i>Decision Systems Engineering Invited Talk</i> , "Framework for Loss Distribution of the Operational Risk of Vehicle-to-Vehicle Cooperation to Marshal Traffic via Monetization of Highway Space"
	[5] June 19, 2019, ASU, CASCADE, <i>AMEX visit invited talks</i> , "Dynamic structural perco- lation model of loss distribution for cyber risk of smart contracts on random tree-stars graph"
	[4] April 26, 2019, ASU, CASCADE Workshop/Retreat on Big Data Challenges, Techniques, and Applications, "Dynamic structural percolation model of loss distribution for cyber risk of smart contracts on random tree-stars graph"
	[3] February 19, 2019, ASU, CASCADE CIA visit, "Dynamic structural percolation model of loss distribution for cyber risk of smart contracts on random tree-stars graph"
	<ul> <li>[2] March 18, 2019, ASU, School of Mathematical and Statistical Sciences, <i>RTG Seminar</i>, "Estimating Veterans Health Benefit Grants Using the Generalized Linear Mixed Cluster- Weighted Model with incomplete Data"</li> </ul>
	<ul><li>[1] March 11, 2019, ASU, School of Mathematical and Statistical Sciences, <i>RTG Seminar</i>, "Spatial Patterns of Mortality in the United States: A Spatial Filtering Approach"</li></ul>
INVITED Workshops, Panels, Summer	[3] December 9th, 2024, WEB3SEC 2024 - Workshop Encouraging Building Better Blockchain Security. Held in conjunction with the Annual Computer Security Applications Confer- ence (ACSAC). Panelist – "Beyond Firewalls: AI and Blockchain's Cyber Citadel"
SCHOOLS (IWSS)	<ul> <li>[2] September 10-11, 2019, Grand Forks, Fargo, Microsoft Campus, Big Data and Big Ideas: A Workshop on Collaborative Project Ideas - Part 2</li> </ul>
	[1] August 3-7, 2015, Nairobi, Kenya, <i>3rd Strathmore International Mathematics Conference</i> ( <i>SIMC 2015</i> ), Mathematical Finance school, <i>Discrete Time Financial Modelling</i>
Engagement, Webcasts,	[3] December 2023, "Effects of Natural Disasters on Spatio-Temporal Patterns Of Crime Types in the United States", Criminal Investigations and Network Analysis Center Re- search Findings, jointly with Cody Delos Santos, Esther Boyle and Melanie Gall
PODCASTS (OMWP)	[2] December 2023, Zero-Knowledge Proofs: Emerging Opportunities for the Insurance In- dustry, Society of Actuaries Research Institute
	[1] September 2022, Social and Other Determinants of Life Insurance Demand, Society of Actuaries Research Institute

ATTENDED WORKSHOPS, SUMMER SCHOOLS CONFERENCES (AWSSC)	<ul> <li>[16] Apr 2024, CIRI 2024 Colloquium, Critical Infrastructure Resilience Institute at University of Illinois, Department of Homeland Security Center of Excellence</li> <li>[15] Apr 2022, IGEN Online Workshop, <i>Strategies for Equity-based Holistic Review</i></li> <li>[14] Apr 2022, IGEN Online Workshop, <i>Fundamentals of Equity in Graduate Admissions</i></li> <li>[13] March 2020, Phoenix, USA, <i>Hyperledger Global Forum 2020 - Linux Foundation Events</i></li> <li>[12] March 2019, Phoenix, USA, <i>Energy Blockchain Consortium Regional Summit</i></li> <li>[11] October 2018, Tempe, USA, ASU, <i>Faculty and Academic Professional Search Workshop</i></li> <li>[10] September 2018, Scottsdale, USA, <i>Nexus Blockchain conference</i></li> <li>[9] October 2017, Minnesota, USA, IMA, <i>Agricultural Data Integration</i></li> <li>[8] August 2017, Panama City, Panama, <i>ASTIN/AFIR Colloquium 2017</i></li> <li>[7] July 2017, Vienna, Austria, <i>IME Educational Workshop</i></li> <li>[6] October 2016, New York, USA, Columbia Uni., <i>Workshop on Systemic Risk in Insurance</i></li> <li>[5] July 2016, Minneapolis / St. Paul, USA, <i>51st Actuarial Research Conference (ARC)</i></li> <li>[4] November 2013, Toronto, Canada, Fields Institute, <i>Mathematics for New Econ. Thinking</i></li> <li>[3] October 2013, Toronto, Canada, Fields Institute, <i>Mathematics Stepselive Workshop</i></li> <li>[2] July, 2011, Spain, UPM, <i>Advanced Statistics and Data Mining Summer School</i></li> </ul>
	[1] September 2010, University of Ulm, Germany, Summer School in Stochastic Calculus
Conference, Meeting Posters (CMP)	<ul> <li>[2] October 2022, Criminal Investigations and Network Analysis (CINA) Annual Meeting 2022, (DHS Center of Excellence), "Effects of Natural Disasters On Spatio-Temporal Patterns of Crime Types in the U.S." by Jevtić, Delos Santos, Boyle, and Gall</li> <li>[1] February 2013, Brussels, Belgium, <i>Actuarial and Financial Mathematics Conference</i> "Mortality Surface by Means of Continuous Time Cohort Models" by Jevtić, Luciano and Vigna</li> </ul>

Teaching Experience (TE)	Arizona State University (ASU), School of Mathematics and Statistical Sciences, USA Instructor - Graduate Courses
	<ul> <li>2025 Spring, Machine Learning and Risk Management Appl. (ACT 561) (forthcoming)</li> <li>2024 Fall, Regression Modeling: Insurance (ACT 560)</li> <li>2024 Spring, Machine Learning and Risk Management Appl. (ACT 561)</li> <li>2022 Fall, Portfolio Theory and Risk Management (ACT 575)</li> <li>2021 Fall, Portfolio Theory and Risk Management (ACT 575)</li> <li>2021 Spring, Data Analytics in Insurance II (ACT 561)</li> <li>2020 Fall, Portfolio Theory and Risk Management (ACT 575)</li> <li>2020 Fall, Portfolio Theory and Risk Management (ACT 575)</li> <li>2020 Spring, Data Analytics in Insurance II (ACT 561)</li> <li>2019 Spring, Data Analytics in Insurance II (ACT 561)</li> <li>2018 Fall, Insurance Data Analytics I (ACT 560)</li> <li><i>Instructor - Undergraduate Courses</i></li> </ul>
	<ul> <li>2024 Fall, Statistics for Risk Modeling (ACT 435)</li> <li>2024 Spring, Risk Management and Insurance (ACT 301)</li> <li>2023 Spring, Software Tools for Business Analytics (ACT 370)</li> <li>2022 Spring, Modern Differntial Equations (MAT 275)</li> <li>2021 Fall, Risk Management and Insurance (ACT 301)</li> <li>2021 Spring, Risk Management and Insurance (ACT 301)</li> <li>2020 Fall, Discovery Seminar: Risk and Math (LIA 194)</li> <li>2018 Spring, Actuarial Business Forecasting (ACT 435)</li> <li>2018 Spring, Mathematics of Finance (ACT 310)</li> </ul>
	McMaster University (MMU), Department of Mathematics and Statistics, Canada Instructor - Graduate Courses
	<ul> <li>2016 Winter, Portfolio Theory and Incomplete Markets (Math 775)</li> <li>2015 Winter, Topics in Financial Mathematics (Math 772)</li> <li><i>Instructor - Undergraduate Courses</i></li> </ul>
	<ul> <li>2017 Winter, Introduction to Mathematical Finance (Math 2FM3)</li> <li>2017 Winter, Calculus for Business (Math 1M03)</li> <li>2016 Fall, Advanced Functions and Introductory Calculus (Math 1K03)</li> <li>2016 Spring/Summer, Introduction to Mathematical Finance (Math 2FM3)</li> <li>2015 Fall, Introduction to Mathematical Finance (Math 2FM3)</li> <li>2015 Fall, Mathematics of Finance (Math 3FM3)</li> <li>2014 Fall, Introduction to Mathematical Finance (Math 2FM3)</li> <li>2014 Fall, Mathematics of Finance (Math 3FM3)</li> <li>2014 Fall, Mathematics of Finance (Math 3FM3)</li> <li>2014 Fall, Introduction to Mathematical Finance (Math 2FM3)</li> <li>2014 Fall, Introduction to Mathematical Finance (Math 2FM3)</li> <li>2014 Fall, Introduction to Mathematical Finance (Math 2FM3)</li> </ul>
	University of Turin, Department of Economic, Italy Instructor
	• 2013, Statistics course (Ph.D. students in Law and Economics) (with Marina Marena)
	• 2012, Advanced Insurance Seminars (qulified/qualifying actuaries) Topics: Longevity Risk, Advanced Mortality Models, CAT bonds and Catastrophe Risk, Health Insurance, Alternative Risk Transfer, Reinsurance, Public and Supplementary pensions, Securitization of Insurance Risk
	<ul> <li>2012, IT Training for Finance (undergraduate course) Topics: Programming with application to finance</li> </ul>

Teaching Assistant (for Associate Professor Rosaria Ignaccolo)

• Statistics course (Ph.D. students in Law and Economics)

STUDENT	[18] John Ginos (August 2024 - present)
ADVISING (SA)	• Ph.D. student in Statistics,
	Arizona State University University
	• Supervisors: (Petar Jevtić advisor Fall 2024 with Beckett Sterner, funded from [EG:13])
	[17] Bright Manu (August 2024 - present)
	• Ph.D. student in Data Science, Analytics and Engineering, ASU
	• Supervisors: (Petar Jevtić advisor Fall 2024 with Beckett Sterner, funded from [EG:13])
	[16] Zhao Qihian (August 2024 - present)
	<ul> <li>Ph.D. student in Data Science, Analytics and Engineering,</li> </ul>
	Arizona State University University
	Supervisors: Petar Jevtić
	[15] Ping-Han Huang (January 2024 - May 2024)
	• Ph.D. student in Statistics, Arizona State University University
	<ul> <li>Advisors: Ming-Hung Kao (Petar Jevtić RA Supervisor: Spring 2024)</li> </ul>
	[14] Trevor Reckell (August 2023 - present)
	• Ph.D. student in Applied Mathematics, Arizona State University University
	• Advisors: Eric Kostelich (Petar Jevtić RA Supervisor: Fall 2023, Spring 2024, Fall 2024
	jointly with Beckett Sterner, funded from [EG:13])
	[13] Cody Delos Santos (January 2022 - present)
	• Ph.D. student in Applied Mathematis, Arizona State University University
	<ul> <li>Advisors: Petar Jevtić (Supervisor, Block grant Supervisor<sup>2</sup>, RA Supervisor: 2023 Spring,</li> </ul>
	2023 Summer, 2024 Spring)
	[12] Sari Cahyaningtias (April 2021 - present)
	• Ph.D. student in Applied Mathematis, Arizona State University University
	Advisors: Petar Jevtić (Supervisor, Block grant Supervisor)
	[11] Varun Chandra (August 2021 - May 2022)
	• undergraduate student student in mathematics and Barrett, the Honors College student,
	Arizona State University
	Advisors: Petar Jevtić (Thesis Committee Chair and Advisor)     Defended Thesis: "Come Theory and its Applications to Infrastructure Convitus
	Defended Thesis: "Game Theory and its Applications to Infrastructure Security:     A Dibliometric Analysis"
	A Bibliometric Analysis"
	<ul> <li>[10] Stefano Chiaradonna (October 2020 - September 2024)</li> <li>Ph.D. student in Applied Mathematics, Arizona State University</li> </ul>
	<ul> <li>Advisors: Petar Jevtić (Co-Supervisor and RA Co-Superisor: (partial) Fall 2020, Spring</li> </ul>
	2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023, Summer (partial) 2023, Fall 2023,
	Spring 2024) (partially shared with Prof. Lanchier)
	<ul> <li>Awards: 2024 (partially shared with Flot: Lancher)</li> <li>Awards: 2024 Graduate Student Research Award (Supported by the SoMSS)</li> </ul>
	[9] Esther Boyle (February 2019 - November 2023)
	Ph.D. student in Statistics, Arizona State University
	<ul> <li>Advisors: Petar Jevtić (Supervisor and RA Supervisor: 2020 Spring, 2020 Summer, 2020</li> </ul>
	Fall, 2021 Spring (partial), 2021 Summer, 2023 Spring (partial), 2023 Summer (partial),
	2023 Fall (partial))
	• Ph.D. committee: Ph.D. Thesis defended. (Co-Chair) Dr. Petar Jevtic (Associate
	Professor, SoMSS, ASU), (Co-Chair) Dr. Nicolas Lanchier (Professor, SoMSS, ASU),
	(Member) Dr. Dan Cheng (Assistant Professor, SoMSS, ASU), (Member) Dr. John
	Fricks (Associate Professor, SoMSS, ASU), (Member) Dr. Shiwei Lan (Assistant Pro-
	fessor, SoMSS, ASU), (Member) Dr. Melanie Gall (Assistant Professor, School of Public
	Affairs, ASU), (Member) Dr. Paul McNicholas (Professor, School of Mathematics and
	Statistics, McMaster University), (Member) Dr. Susan Cutter (Professor, Department of
	Geography, University of South Carolina)
	• Current position: Natural Catastrophe Research Scientist at Chubb Philadelphia, PA

<sup>&</sup>lt;sup>2</sup>Block grants are summer grants given by SoMSS for students to do one-time research with a chosen professor.

STUDENT ADVISING (SA) (CONTINUED)	<ul> <li>[8] Axel La Salle (September 2020 - May 2021)</li> <li>Ph.D. student in Applied Mathematics, Arizona State University</li> <li>Advisors: Nicolas Lanchier (Supervisor), Petar Jevtić (RA Supervisor: Fall 2020, (partial) Spring 2021)</li> <li>Ph.D. committee: Ph.D. Thesis defended. (Co-Chair) Dr. Petar Jevtic (Assistant Professor, SoMSS, ASU), (Co-Chair) Dr. Nicolas Lanchier (Professor, SoMSS, ASU), (Member) Dr. Dragan Boscovic (Research Professor, SoMSS, ASU), (Member), Dr. Rodrigo Platte (Associate Professor, SoMSS, ASU), (Member) Dr. Sebastien Motsch (Associate Professor, SoMSS, ASU), (External Reviewer) Khaled Salah (Professor, Khalifa University of Science and Technology, UAE)</li> <li>Current position: National Security Agency (NSA) employee</li> </ul>
	<ul> <li>[7] Wilmer Martinez (September 2020 - December 2021)</li> <li>Ph.D. student in Statistics, Arizona State University</li> <li>Advisors: Dr. J. Fricks (Supervisor), Petar Jevtić (RA Supervisor: Fall 2020, (partial) Spring 2021, (partial) Summer 2021, (partial) Fall 2021)</li> <li>Current position: Researcher – Banco de la República, Colombia</li> </ul>
	<ul> <li>[6] Kyran Cupido (August 2017 - April 2020) <ul> <li>Ph.D. student in Statistics, Arizona State University</li> <li>Advisors: Petar Jevtić (Supervisor, Block grant Supervisor, RA supervisor: (partial) Fall 2018)</li> </ul> </li> <li>Ph.D. committee: Ph.D. Thesis defended. (Chair) Dr. Petar Jevtic (Assistant Professor, SoMSS, ASU), (Member) Dr. Mark Reiser (Associate Professor, SoMSS, ASU), (Member) Dr. Nicolas Lanchier (Associate Professor, SoMSS, ASU), (Member) Dr. Nicolas Lanchier (Associate Professor, SoMSS, ASU), (Member) Dr. Yi Zheng (Assistant Professor, SoMSS, ASU), (Member) Dr. Stewart Fotheringham (Regents Professor, School of Geographical Sciences and Urban Planning, ASU), (Member) Dr. Antonio Paez (Professor, Department of Geography and Earth Sciences, McMaster University)</li> <li>Current Position: Assistant Professor Department of Statistics, St. Francis Xavier University, Canada</li> </ul>
	<ul> <li>[5] Palak Jain (August 2017 - December 2019)</li> <li>Ph.D. student in Applied Mathematics, Arizona State University</li> <li>Advisors: Petar Jevtić (Advisor, Block grant Supervisor)</li> </ul>
	<ul> <li>[4] Nikola Počuča (September 2016 - May 2017)</li> <li>Undergraduate student in mathematics, McMaster University</li> <li>Advisors: Petar Jevtić (Co-Supervisor)</li> <li>Completed: Ph.D. student in Statistics - P. McNicholas (Supervisor)</li> </ul>
	<ul> <li>[3] Deng Xiaoying (September 2016 - December 2017)</li> <li>M.S. student in Statistics, McMaster University</li> <li>Advisors: Petar Jevtić (Co-Supervisor), P. McNicholas (Supervisor)</li> </ul>
	<ul> <li>[2] He Bingying (September 2015 - December 2016)</li> <li>M.S. student in Financial Mathematics, McMaster University</li> <li>Advisors: Petar Jevtić (Co-Supervisor), T. R. Hurd (Supervisor)</li> </ul>
	<ul> <li>[1] Chengwei Qin (November 2015 - September 2016)</li> <li>Ph.D. student in Statistics, McMaster University</li> <li>Advicers: N. Balakrichnan (Supervisor). Pater Javić (Menter on a research project).</li> </ul>

SERVICE (S)	Arizona State University (ASU), School of Mathematics and Statistical Sciences, USA
	<ul> <li>School Service (SoMSS)</li> <li>2024 SoMSS representative for Data Science, Analytics and Engineering PhD committee</li> <li>Ph.D. Thesis Committee Co-Chair for Axel La Salle</li> <li>Helped in redesign M.S. courses in the latest program update</li> <li>Barrett the Honors Thesis Chair for Varun Chandra, Fall 2021 and Spring 2022</li> <li>Chair of Comprehensive Exam Committee (Esther Boyle), Fall 2020</li> <li>Ph.D. Thesis Committee Chair for Kyran Cupido, Spring 2020</li> <li>Member of MAT590 Comprehensive Exam Committee, Spring 2020</li> <li>Actuarial Science Tenure-track Search Committee Member (Oct 2018 - Jan 2019)</li> <li>Designed curriculum for several graduate classes in new M.S. in Actuarial Science</li> <li>Chair of ACT561 Comprehensive Exam Committee, Spring 2020</li> <li>Organized and supported seminars with external speakers: Prof. P. McNicholas (McMaster University), Prof. D. Bauer (University of Winsconsin-Madison), and Dr. T. Pirvu (McMaster University).</li> </ul>
	University Service
	<ul> <li>Center for Assured and Scalable Data Engineering - Expert in residence, August 2019 -</li> <li>Center for Biodiversity of Outcomes - Faculty Affiliate, September 2019 -</li> </ul>
	Professional Service
	<ul> <li>Professional Service</li> <li>January 2024 - Present, Associate Editor of <i>Decisions in Economics and Finance</i></li> <li>2024 WEB3SEC - Workshop Encouraging Building Better Blockchain Security Organizing Committee Member, December 9-13, Honolulu, Hawaii, USA</li> <li>2024 Society of Actuaries Research (SOA) Project Oversight Group Member "Comparison of Regulatory Framework for Non-Discriminatory AI Usage in Insurance"</li> <li>2024 <i>Mathematics</i>, Guest Editor Special Issue: Mathematical Methods for Security and Infrastructure Protection</li> <li>2024 Risks, Guest-Co Editor (together with Traian Pirvu), Special Issue: <i>Mathematical Methods Applied in Pricing and Investment Problems</i></li> <li>2023 Society of Actuaries Research (SOA) Project Oversight Group Member "Blockchain Opportunities for Insurance and Financial Industries"</li> <li>University of New South Wales, Sydney, School of Risk and Actuarial Studies, External PhD Thesis Examiner for Yulong Li, 2022</li> <li>ARC 2020 - Moderator SIS Round Table: Blockchain\Smart Contracts in Insurance</li> <li>Actuarial Research Conference (ARC) 2020 - Scientific Committee Member</li> <li>Enhancing Resilience of Island Communities (ERIC) - Team member, April 2020 - Society of Actuaries Research (SOA) Project Oversight Group Member</li> </ul>
	<ul> <li>Society of Actuaries Research (SOA) Project Oversight Group Member "Environmental Risk Paper Series"</li> </ul>
	<ul> <li>Society of Actuaries Research (SOA) Project Oversight Group Chair "Quantification of Cyber Risk for Actuaries: An Economic-Functional Approach"</li> <li>Ad-hoc journal reviewer for: Insurance: Mathematics and Economics, Risks, ASTIN Bulletin, Risk Management and Insurance Review, Scandinavian Actuarial Journal, Annals of Actuarial Science, Journal of Computational Science, Sustainability, In- ternational Journal of Disaster Risk Reduction</li> <li>Grant reviewer for Mitacs (Canadian funding agency)</li> <li>Assessor for University of Johannesburg, College of Business and Economics</li> <li>Facets Journal (Canada's first multidisciplinary open access science journal) Role: Data Science Theory and Methods Subject Editor</li> </ul>

SERVICE (S)	McMaster University (MMU), Department of Mathematics and Statistics, Canada
(Continued)	<ul> <li>Department Service</li> <li>Department Outreach Committee member (September 2016 - 2017)</li> <li>Master's admissions committee member (M-Phimac) (2015-2016)</li> <li>Advisory faculty member to McMaster Student Actuarial Society (2014 - 2017)</li> <li>Fall 2014, 2015 and 2016, the department representative at the Ontario Universities' Fair</li> </ul>
	<ul> <li>Professional Service</li> <li>Organizing committee member for Winter 2016 Canadian Mathematical Society meeting, Actuarial and Financial Mathematics section</li> </ul>
PROFESSIONAL CERTIFICATION	<ul> <li>CFA (Chartered Financial Analyst) Level II exam, passed June 2008</li> <li>CFA (Chartered Financial Analyst) Level I exam, passed June 2007</li> <li>Actuarial Exams Passed: FM</li> </ul>
PH.D. THESIS	[1] Petar Jevtić, "Topics in Probability and Stochastic Modeling in Insurance, Finance and Combinatorial Optimization", <i>Ph.D. Thesis</i> , University of Turin, Turin, Italy, 2013.
Awards and Scholarships	<ul> <li>December 2012, exceptional Ph.D. student reward in memory of Prof. Giovanni Galatioto, past president of the Piedmontese committee of the Italian Association of Actuaries</li> <li>Full scholarship for Ph.D studies (University of Turin, Italy)</li> <li>Full scholarship for M.S. studies (Faculty of Economics, University of Belgrade, Serbia)</li> </ul>
Memberships	American Risk and Insurance Association (ARIA)
REFERENCES AVAILABLE TO CONTACT [R]	<ul> <li>Professor Runhuan Feng (e-mail: fengrh@sem.tsinghua.edu.cn; rfeng@illinois.edu)</li> <li>Chair Professor in the School of Economics and Management in Tsinghua University</li> <li>Previously, Professor of Mathematics, Statistics and Industrial Engineering, State Farm Companies Foundation Endowed Professor, Director of Actuarial Science and the Found-ing Director of Predictive Analytics and Risk Management in the University of Illinois at Urbana-Champaign in the United States</li> </ul>
	<ul> <li>Professor Qihe Tang (e-mail: qihe.tang@unsw.edu.au)</li> <li>SHARP Professor, School of Risk and Actuarial Studies, University of New South Wales (UNSW) Sydney. Previously, Full Professor and Endowed Chair University of Iowa</li> <li>Editor of the journal <i>Insurance: Mathematics and Economics</i>, and an Associate Editor of several other journals including Applied Stochastic Models in Business and Industry, Statistics &amp; Probability Letters, and Science China Mathematics</li> </ul>
	<ul> <li>Professor Dragan Boscovic (e-mail: dragan.boscovic@asu.edu)</li> <li>Clinical Professor, Department of Information Systems, W. P. Carey School of Business, Arizona State University (ASU). Previously, research professor in the School of Computer Information and Decision Systems Engineering, Ira A. Fulton Schools of Engineering, ASU</li> <li>Director of ASU's Blockchain Research Lab and the technical director of ASU's Center for Assured and Scalable Data Engineering.</li> </ul>