Linfeng Zhang

VISITING ASSISTANT PROFESSOR OF ACTUARIAL SCIENCE

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Education	
University of Illinois at Urbana-Champaign PHD MATHEMATICS (CONCENTRATION IN ACTUARIAL SCIENCE AND RISK ANALYTICS)	Illinois August 2019 - present
University of Illinois at Urbana-Champaign MS FINANCE	Illinois August 2015 - May 2016
University of Illinois at Urbana-Champaign BS ACTUARIAL SCIENCE, STATISTICS • Minor in Astronomy	Illinois August 2011 - May 2015
Professional Experience	
present 2021-2022	
Publications	

PUBLISHED

- Feng, R., Garrido, J., Jin, L., Loke, SH., Zhang, L., 2022. Epidemic Compartmental Models and Their Insurance Applications. In: Boado-Penas, M.d.C., Eisenberg, J., Şahin, Ş. (eds) Pandemics: Insurance and Social Protection. Springer Actuarial. Springer, Cham.
- Chen, X., Chong, W.F., Feng, R., Zhang, L., 2021. Pandemic Risk Management: Resources Contingency Planning and Allocation. Insur Math Econ. 101, 359–383.
- Kesan, J.P., Zhang, L., 2021. When Is A Cyber Incident Likely to Be Litigated and How Much Will It Cost? An Empirical Study. Conn. Ins. L.J. 27(2), 529–580.
- Kesan, J.P., Zhang, L., 2020. Analysis of Cyber Incident Categories Based on Losses. ACM Trans. Manage. Inf. Syst. 11, 1–28.
- Kesan, J.P., Zhang, L., 2019. An Empirical Investigation of the Relationship between Local Government Budgets, IT Expenditures and Cyber Losses. IEEE Trans. Emerg. Topics Comput. 9(2), 582–596.
- Tonn, G., Kesan, J.P., Zhang, L., Czajkowski, J., 2019. Cyber risk and insurance for transportation infrastructure. Transport Policy. 79, 103–114.
- Shetty, S., McShane, M., Zhang, L., Kesan, J.P., Kamhoua, C.A., Kwiat, K., Njilla, L.L., 2018. Reducing Informational Disadvantages to Improve Cyber Risk Management†. Geneva Pap Risk Insur Issues Pract. 43, 224–238.

In Review

Chong, W.F., Feng, R., Hu, Z., Zhang, L. Cyber Risk Assessment for Capital Management.

IN PREP

Chong, W.F., Linders, D., Quan, Z., Zhang, L. Incident-Specific Cyber Insurance for Market Substantiality and Potential Growth. (Working Paper)

Chong, W.F., Feng, R., Zhang, L. In Preparation for Privacy Breach: Balancing Data Utility and Privacy Risk. (Working Paper)

Grants		
2022	SOA Cyber Risk Literature Search Grant , with Wing Fung (Alfred) Chong, Runhuan Feng, and Zhiyu Quan, Society of Actuaries	Co-Pl
2020	Impact of COVID-19 Grant, with Xiaowei Chen, Wing Fung (Alfred) Chong, and Runhuan Feng, Canadian Institute of Actuaries	Co-PI
Awards &	Fellowships	
2022	ARC Graduate Student Presentation Award Honorable Mention , 2022 Actuarial Research Conference, Society of Actuaries	
2021	Maples of Best Student Paper Awards , Virtual 24th International Congress on Insurance: Mathematics and Economics	
2020	CAS Best of 2020, 2020 CAS Annual Meeting, Casualty Actuarial Society	
2019	State Farm Mathematics Doctoral Scholarship, State Farm Insurance	

Presentations ___

INVITED TALKS

Feng, R., Chong, W.F., & Zhang, L. 2021. Pandemic Risk Management: Resources Contingency Planning and Allocation. 2021 Casualty Loss Reserve Seminar, Online.

Zhang, L. 2018. Cyber Risk Assessment to Empower Cyber Insurance markets. ISF US Chapter Spring Conference, Chicago, Illinois.

CONTRIBUTED PRESENTATIONS

- Zhang, L. 2022. Cyber Risk Assessment for Capital Management. 2022 INFORMS Annual Meeting, Indianapolis, Indiana.
- Zhang, L. 2022. Pandemic Risk Management: Resources Contingency Planning and Allocation. The 57th Actuarial Research Conference, Champaign, Illinois.
- Zhang, L. 2022. Pandemic Risk Management: Resources Contingency Planning and Allocation. 25th International Congress on Insurance: Mathematics and Economics, Online.
- Zhang, L. 2021. Cyber Risk Assessment of Capital Management. Virtual 24th International Congress on Insurance: Mathematics and Economics, Online.
- Zhang, L. 2021. Cyber Risk Assessment of Capital Management. The 56th Actuarial Research Conference, Online.
- Feng, R., Chong, W.F., & Zhang, L. 2021. Pandemic Risk Management: Resources Contingency Planning and Allocation. *act21* CIA Annual Conference, Online.
- Feng, R., Chong, W.F., & Zhang, L. 2020. Pandemic Risk Management: Resources Contingency Planning and Allocation. 2020 CAS Annual Meeting, Online.
- Feng, R., Chong, W.F., & Zhang, L. 2020. Pandemic Risk Management: Resources Contingency Planning and Allocation. SOA Webcast, Online.
- Feng, R., Chong, W.F., & Zhang, L. 2020. Pandemic Risk Management: Resources Contingency Planning and Allocation. One World Actuarial Research Seminar, Online.
- Feng, R., Chong, W.F., & Zhang, L. 2020. Pandemic Risk Management: Resources Contingency Planning and Allocation. Fall 2020 Actuarial Science and Financial Mathematics Seminar, Champaign, Illinois.

Teaching Experience _____

Fall 2022	ACTS/INS 190 - Case Studies Ins & Act Sci, Instructor	Drake
Fall 2022	ACTS 135 - Mathematical Statistics, Instructor	Drake
Fall 2020	ASRM 195 - Foundations of Data Management, Instructor	UIUC
Fall 2019	MATH 563 - Risk Modeling and Analysis, Teaching Assistant	UIUC

Research Experience _____

University of Illinois at Urbana-Champaign - Dept of Math

Champaign, IL

SUPERVISORS: DR. ALFRED CHONG, DR. RUNHUAN FENG

May. 2021 - Present

Research Assistant
• Sponsor: Cisco

• Project: Privacy Risk Assessment

University of Illinois at Urbana-Champaign - Dept of Math

Champaign, IL

Supervisors: Dr. Runhuan Feng, Dr. Alfred Chong, Dr. Daniël Linders, Dr. Jay P. Kesan

Jan. 2019 - Jul. 2021

Research Assistant

• Sponsor: Society of Actuaries

Project: Actuarial Innovation and Technology on Cyber Risk

University of Illinois at Urbana-Champaign - Illinois Risk Lab

Champaign, IL

GRADUATE SUPERVISOR

Aug. 2019 - Present

- Project: Pekin Insurance General Liability Insurance (GL) Loss Predictive Model
- Project: AI-Powered Lifecycle Financial Planning
- Project: Cyber Risk Data Analysis
- Project: covidplan.io Maintenance and Development
- Project: Visualization of Pandemic Contingency Planning and Medical Resources Allocation
- Project: Cyber Risk Profile Construction via Individual Cyber Losses Aggregation

University of Illinois at Urbana-Champaign - Dept of Math

Champaign, IL

SUPERVISORS: DR. RUNHUAN FENG, DR. ALFRED CHONG

Jun. 2020 - Jun. 2021

Research Assistant

- Sponsor: Canadian Institute of Actuaries
- Project: Pandemic Risk Management: Resources Contingency Planning and Allocation

University of Illinois at Urbana-Champaign - Dept of Math

Champaign, IL

SUPERVISORS: DR. RUNHUAN FENG, DR. ALFRED CHONG, DR. DANIËL LINDERS, DR. JAY P. KESAN

Jun. 2019 - Dec. 2020

Research Assistant

- Sponsor: Fundación MAPFRE
- Project: Cyber Insurance Challenges and Opportunities for Market Growth

University of Illinois at Urbana-Champaign - Information Trust Institute

Champaign, IL

SUPERVISOR: DR. JAY P. KESAN

2016 - 2019

Research Assistant

- Sponsor: Critical Infrastructure Resilience Institute
- Project: Towards Community Resilience through Comprehensive Risk Assessment for Business Continuity