

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

2021 **Data Scientist**, Infinilytics Inc.

2019-
present **Graduate Supervisor/Project Manager**, Illinois Risk Lab, University of Illinois

2016-2019 **Research Assistant**, Information Trust Institution, University of Illinois

Publications

PUBLISHED

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

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|------|---|-------|
| 2022 | SOA Cyber Risk Literature Search Grant , with Wing Fung (Alfred) Chong, Runhuan Feng, and Zhiyu Quan, Society of Actuaries | Co-PI |
| 2020 | Impact of COVID-19 Grant , with Xiaowei Chen, Wing Fung (Alfred) Chong, and Runhuan Feng, Canadian Institute of Actuaries | Co-PI |

Awards & Fellowships

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| 2022 | ARC Graduate Student Presentation Award Honorable Mention , 2022 Actuarial Research Conference, Society of Actuaries |
| 2021 | Maplesoft 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

Spring 2018. *Cyber Risk Assessment to Empower Cyber Insurance markets*. Invited talk: 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.
- Feng, R., Chong, W.F., & Zhang, L. 2021. Pandemic Risk Management: Resources Contingency Planning and Allocation. 2021 Casualty Loss Reserve Seminar, 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. *act27* 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

Fall 2022 **ACTS 135 - Mathematical Statistics**, Instructor

Fall 2020 **ASRM 195 - Foundations of Data Management**, Instructor

Fall 2019 **MATH 563 - Risk Modeling and Analysis**, Teaching Assistant

Drake
University
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University of
Illinois at
Urbana-
Champaign
University of
Illinois at
Urbana-
Champaign

Research Experience

University of Illinois at Urbana-Champaign - Dept of Math

SUPERVISORS: DR. ALFRED CHONG, DR. RUNHUAN FENG

Research Assistant

- Sponsor: Cisco
- Project: Privacy Risk Assessment

Champaign, IL
May. 2021 - Present

University of Illinois at Urbana-Champaign - Dept of Math

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

Research Assistant

- Sponsor: Society of Actuaries
- Project: Actuarial Innovation and Technology on Cyber Risk

Champaign, IL
Jan. 2019 - Jul. 2021

University of Illinois at Urbana-Champaign - Illinois Risk Lab

GRADUATE SUPERVISOR

- 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

Champaign, IL
Aug. 2019 - Present

University of Illinois at Urbana-Champaign - Dept of Math

SUPERVISORS: DR. RUNHUAN FENG, DR. ALFRED CHONG

Research Assistant

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

Champaign, IL
Jun. 2020 - Jun. 2021

University of Illinois at Urbana-Champaign - Dept of Math

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

Research Assistant

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

Champaign, IL
Jun. 2019 - Dec. 2020

University of Illinois at Urbana-Champaign - Information Trust Institute

SUPERVISOR: DR. JAY P. KESAN

Research Assistant

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

Champaign, IL
2016 - 2019