

# Linfeng Zhang

PHD STUDENT · ACTUARIAL SCIENCE AND RISK ANALYTICS

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## Education

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### 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

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2021-  
present

**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

2014

**Risk Management Intern**, China Pacific Property Insurance Co., LTD

## Publications

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### PUBLISHED

Chen, X., Chong, W.F., Feng, R., Zhang, L., 2021. Pandemic Risk Management: Resources Contingency Planning and Allocation. *Insur Math Econ*.

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.* (forthcoming).

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 PREP

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

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

## Awards, Fellowships, & Grants

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- 2021 **Maplesoft Best Student Paper Awards**, Virtual 24th International Congress on Insurance: Mathematics and Economics
- 2019 **State Farm Mathematics Doctoral Scholarship**, State Farm Insurance

## Presentations

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### INVITED TALKS

Spring 2018. *Cyber Risk Assessment to Empower Cyber Insurance markets*. Invited talk: ISF US Chapter Spring Conference, Chicago, Illinois.

### CONTRIBUTED PRESENTATIONS

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. *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

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

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

## Research Experience

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### 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. DANIEL 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

*Champaign, IL*

*Aug. 2019 - Present*

- 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**

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*