

# LINFENG ZHANG

1517 E. Florida Ave, # 101C • Urbana, IL 61802 • (217) 255-3756 • lzhang18@illinois.edu

## EDUCATION

---

<b>UNIVERSITY OF ILLINOIS</b>	Urbana-Champaign, IL
<b>PhD student in Mathematics</b> (Concentration in Actuarial Science)	Expected May 2024
<b>Master of Science in Finance</b> , May 2016	GPA: 3.87/4
<b>Bachelor of Science</b> , Actuarial Science and Statistics, May 2015	Major GPA: 3.73/4

## WORK EXPERIENCE

---

<b>Information Trust Institute at University of Illinois</b>	Urbana, IL
<b>Research Assistant</b>	August 2016 – July 2019
Data management: Collect, validate and organize data from multiple sources; Build and maintain the database	
Data analysis: Perform statistical and empirical analyses on historical cyber incidents	
Web development: Develop a web-based tool that allows users to perform customized risk assessments	
Communication: Converse with professionals and practitioners; Prepare materials for presentations	
<ul style="list-style-type: none"><li>Enabled our team to perform extensive analyses on cyber risk by collecting data on the most important aspects of over 40,000 historical cyber incidents</li><li>Wrote 3 papers on our key findings, had one published by a top-tier risk management journal and the other two in publication pipeline</li><li>Built a prototype of the web-based tool with core functions including data lookup, data visualization and risk scoring corresponding to user inputs</li><li>Presented our work to members of the Information Security Forum and received many positive feedbacks</li></ul>	
<b>CHINA PACIFIC PROPERTY INSURANCE CO., LTD</b>	Shanghai, China
<b>Risk Management Intern</b>	June 2014 – August 2014
<ul style="list-style-type: none"><li>Constructed a risk map regarding company's non-operating in the first half year of 2014, which covered in total 28 subcategories of insurance risk, market risk and credit risk</li><li>Assisted department manager with semiannual risk report, and collaborated with 4 departments to complete non-operating risks for the report</li><li>Evaluated surrender values and surrender rates in all 34 provinces, aided insurance risk in estimating the influence they had on company's risk status</li></ul>	

## PROJECTS

---

Name	Sponsor	Role	Status
Actuarial Innovation and Technology on Cyber Risk	Society of Actuaries	Research Assistant; Author	Ongoing (2019-20)
Cyber Insurance – Challenges and Opportunities for Market Growth	Fundación MAPFRE	Research Assistant; Author	Ongoing (2019-20)
Risk Assessment and Cyber Insurance	Department of Homeland Security; Critical Infrastructure Resilience Institute	Research Assistant; Author	Complete (2016-18)

## PUBLICATIONS

- 
- Kesan, J. P., & Zhang, L. (2019). An Empirical Investigation of the Relationship between Local Government Budgets, IT Expenditures and Cyber Losses. *IEEE Transactions on Emerging Topics in Computing*, 1–1. doi: 10.1109/tetc.2019.2915098
  - Tonn, G., Kesan, J. P., Zhang, L., & Czajkowski, J. (2019). Cyber risk and insurance for transportation infrastructure. *Transport Policy*, 79, 103–114. doi: 10.1016/j.tranpol.2019.04.019
  - 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. *The Geneva Papers on Risk and Insurance - Issues and Practice*, 43(2), 224–238. doi: 10.1057/s41288-018-0078-3

## SKILLS

- 
- Language:** Mandarin (Native)
- Computer and programming skills:**
- Programming Languages:** Proficient in R, Python, JavaScript
  - Databases:** Proficient in MS SQL Server, MongoDB