

# JINYUAN ZHANG

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## EDUCATION

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<b>Ph.D. in Finance</b> , INSEAD	<i>2015 - 2021</i>
<b>M.Sc. in Statistics</b> , University of British Columbia	<i>2013 - 2015</i>
<b>B.Sc. in Risk Management Science</b> , The Chinese University of Hong Kong	<i>2009 - 2013</i>

## REFERENCES

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**Joel Peress** (Chair)

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## RESEARCH INTERESTS

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- Pension, Banking, Household Finance, Mutual Funds, FinTech

## JOB MARKET PAPER

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- [1] **The Effect of Public Pension Deficits on Households' Savings Allocation and Economic Activity**

*Abstract:* US public state pension deficits are massive, accounting for 18.5% of an average state's GDP and up to 50% in Illinois. Since taxpayers must pay these debts, deficits potentially influence their savings choices. Comparing households living on opposing sides of a state's border, I find that households in larger-deficit states take less risk, saving less in stocks and more in bank deposits. Moreover, I show that these differences narrow after states pass pension reforms that significantly reduce their liabilities. The aggregate impact of households' savings allocation is seen in local economic activity: following a state pension reform, households' deposit withdrawals cause banks to cut lending in non-pension-reforming states, generating negative economic externalities in these states.

## WORKING PAPERS

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(\* presented by co-author)

- [2] **Monetary Policy and Corporate Bond Fund Fragility**, with John Kuong

*Conferences:* 2020 ABFER (canceled), 2020 Chicago Financial Institutions Conference (canceled), 2019 AFA Poster Session, 2018 HEC Doctoral Workshop

*Abstract:* This paper examines flow patterns in corporate bond mutual funds under different monetary policy environments. We build a model of runs in funds with uncertain future interest rates, uncovering a novel outflow-to-interest-rate relationship. Consistent with the model's predictions, we empirically find that (i) outflows from funds increase when the target Fed funds rate increases, (ii) the outflow-to-interest-rate sensitivity is stronger under more accommodative and uncertain monetary policy environments, and (iii) these monetary-policy-induced flow sensitivities are greater when the bond market is more liquid. Our results suggest that fragility in corporate bond funds could be an important unintended consequence of monetary policy.

- [3] **Flight to Bitcoin**, with Yang (Gloria) Yu

*Award:* **Runner-up** in the 2019 Toronto FinTech Conference

*Conferences:* 2019 Toronto FinTech Conference\*, 2019 CEBRA Annual Meeting\*, 2018 CICF\*, 2018 FinTech Conference in Bergen University\*, 2018 Wharton-INSEAD Alliance, 2017 Shanghai FinTech Conference\*

*Abstract:* This paper uncovers a novel phenomenon, flight-to-Bitcoin, during heightened policy uncertainties. Panel regressions show that countries witness higher Bitcoin (BTC) premia, turnovers, and web traffic on cryptocurrency exchanges as local economic policy uncertainties surge. Difference-in-differences tests exploiting nation-wide shocks further confirm the pattern. The observed phenomenon is primarily motivated by the lack of confidence in local authorities and investors' risk aversion, instead of the circumvention of capital controls or the hedging demand against market crashes. We argue that the stateless and decentralized feature of BTC qualifies it as an alternative investment vehicle to allay concerns against local authorities amid turbulence.

- [4] **Dynamic Trade Informativeness**, with Bart Zhou Yueshen

*Award:* **Best Paper by a Young Researcher Award (£1500)** in 2018 CEPR-Imperial-Plato Market Innovator (MI3) Conference

*Conferences:* 2019 NBER Big Data and High-Performance Computing for Financial Economics\*, 2019 EFA, 2019 SoFiE, 2018 QFFE, 2018 European Capital Market Workshop, 2018 CEPR-Imperial-Plato Market Innovator (MI3) Conference\*

*Abstract:* This paper develops a structural model to examine high-frequency price dynamics. The key innovation is to allow trades' permanent price impact to be time-varying—dynamic trade informativeness. A distribution-free filtering technique pins the real-world data to the

model. The filtered series (i) significantly recover the efficient price innovation through the dynamics of trade informativeness, (ii) improve trades' explanatory power for future returns, (iii) distinguish informativeness from trades' aggressiveness, (iv) gauge informed investors' patience, and (v) capture systematic patterns around scheduled and unscheduled events, as well as general intraday trends. The framework contributes to the better utilization of high-frequency trading data.

- [5] **Follow the Pack: Information Acquisition in the Presence of Institutional Activism**, with Paula Cocoma

*Conferences*: 2019 Wharton-INSEAD Alliance

*Abstract*: We provide a theoretical framework to understand the implications of institutional activism for the composition of the asset management industry. Including institutional activism in an, otherwise standard, information model gives rise to a conflict of interest among investors, generating new strategic complementarities in investors' information acquisition decisions. Such strategic complementarities lead to an increase in the proportion of passive investors in equilibrium, which can rationalize the rising share of passive investment. Our results are robust to the various approaches that passive investors can take to engage in institutional activism. Moreover, we generate testable predictions on price informativeness, return volatility, and product competition to test the implications of institutional activism.

## PUBLICATIONS

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- [6] **Conditional Extremes in Asymmetric Financial Market**, with Natalia Nolde

*Published in Journal of Business & Economic Statistics*, 38, 2020

- [7] **Bounds on Capital Requirements for Bivariate Risk with Given Marginals and Partial Information on the Dependence**, with Carol Bernard, Yuntao Liu and Niall MacGillivray

*Published in Dependence Modeling* 1, 2013

## DISCUSSIONS

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- The Dollar Profits to Insider Trading, *Peter Cziraki and Jasmin Gider*
- Shareholders' Expected Recovery Rate and Underleverage Puzzle, *Daniel Kim*
- Deviations from Triangular Arbitrage Parity in Foreign Exchange and Bitcoin Markets, *Julia Reynolds, Leopold Sogner, Martin Wagner and Dominik Wied*

## TEACHING EXPERIENCE

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- Tutorial instructor for Corporate Financial Policies (MBA), INSEAD, 2016 and 2017
- Tutorial instructor for Introductory Probability and Statistics, UBC, 2013, 2014