

LU ZHANG,



THE OHIO STATE UNIVERSITY
FISHER COLLEGE OF BUSINESS

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2018/12

Academic Experience

Max M. Fisher College of Business, The Ohio State University

The John W. Galbreath Chair, Professor of Finance, 2017/6-present
Fisher College of Business Distinguished Chair, Professor of Finance, 2015/10-2017/5
s Distinguished Chair, Professor of Finance, 2010/10-2015/9

Stephen M. Ross School of Business, University of Michigan

Professor of Finance, 2009-2010
Associate Professor of Finance (with tenure), 2006-2009

William E. Simon Graduate School of Business Administration, University of Rochester

Assistant Professor of Finance, 2002-2006

Education

The Wharton School, University of Pennsylvania. 1998-2002. Ph.D. in Finance. 2002. M.A. in Finance. 2000. [Ph.D. dissertation: Essays on the cross section of returns](#)

Washington University in St. Louis. 1996-1998. M.A. in Economics. 1997

The Graduate School of the Peo Bank of China (renamed PBC School of Finance, Tsinghua University). 1993-1996. M.S. in Finance. 1996

Jiangxi University of Finance and Economics. 1989-1993. B.A. in Economics. 1993

Professional Honors and Awards

q^5 : Stress-testing factor models.
Research be University of Gothenburg, Sweden, 2018/12

Keynote speech: The supply theory of asset pricing. 2nd Conference on Corporate Policies and Asset Prices, Cass Business School, London, United Kingdom, 2018/12

q^5 : Stress-testing factor models.
Finance Conference, New York City, 2018/10

Bernstein Quantitative

Keynote lecture: investment CAPM: An update.
Management 2018 Doctoral Seminar, Milan, Italy, 2018/6

European Financial

Hou and Xue) featured in Wall Street Journal: [A reality check on stock- /11/5](#) [When researchers and investors walk into a bar, the investors get hammered /5/12](#) [An algorithm, an ETF and an academic study walk into a bar](#) James Mackintosh, 2017/5/11

Bloomberg:
2017/5/24; [Ivory tower wonks help traders make a quick buck](#) 2017/5/11;
[Anomalies, pitches and promises](#) 2017/5/9 [A new paper just took a huge](#)
2017/5/8

Second Prize, the Chicago Quantitative Alliance Academic
(with Hou and Xue), 2017

Replicating anomalies

Replicating anomalies. The Inquire Europe Symposium on
Factor Investing /10

Keynote speech: investment CAPM. The European Financial Management Symposium on
inance and Real Economy, Xiamen, China, 2017/4

Special Term Professor, PBC School of Finance, Tsinghua University, 2017-present

Hou and Xue) is the most cited article
published at Review of Financial Studies in 2015

q^5

Second Prize, the Chicago Quantitative Alliance Acade
, 2015

The Outstanding Working Professional MBA Elective Faculty Award, Fisher College of
Business, The Ohio State University, 2015

Special Term Professor, School of Finance, Shanghai University of Finance and Economics,
2012-2018

Research Fellow, Charles A. Dice Center for Research in Financial Economics, The Ohio State
University, 2010-2018

Distinguished Referee Award, Review of Financial Studies, 2010

Researcher of The Year Award, Stephen M. Ross School of Business, University of Michigan,
2010. his achievements on multiple scholarly dimensions, his stellar reputation
in the field of finance, and his efforts to improve the research environment at the Stephen M.

Inaugural Distinguished Referee Award, *Review of Financial Studies*, 2009

National Bureau of Economic Research: Research Associate, 2009-present, Faculty Research Fellow, 2005-2009, Asset Pricing program

Special Term Professor, Shanghai Advanced Institute of Finance, Shanghai Jiaotong University, 2009-2012

Journal of Finance

(Petkova and Zhang, 2005, *Journal of Financial Economics*) have been featured in Bodie, Kane, *Investments*, a standard textbook for top business schools, since 2007

is the 4th most highly cited article in the literature on anomalies and fundamental analysis since 2000 with the highest average number of citations per year (source: Richardson, Tuna, and Wysocki, 2010, *Journal of Accounting and Economics*)

the 25 most cited articles in *Journal of Finance* since 2004 (source: The American Finance Association Web site)

The 2007-08 NTT Research Fellowship Award, University of Michigan

Sanford C. Bernstein Conference on Controversies in Quantitative Finance and Asset Management, New York City, 2008/3

Gutmann Center Research Fellow, University of Vienna, 2007/4

First Prize, the Smith-Breeden Award for Best Paper in 2005, the American Finance Association and *Journal of Finance*

Runner-up for Best Paper Award at the 2005 Utah Winter Finance Conference

Runner-up for Barclays Global Investors Award for the Best Conference Paper at the 2005 European Finance Association Meetings for *e: Testing the investment-based* (with Lyandres and Sun)

rits, The Wharton School, 1998-2002

Research

Area of specialization: Asset pricing, in connection with macroeconomics, corporate finance, labor economics, computational economics, microeconometrics, capital markets research in accounting, economic history, and meta-science

Publications

2018 Hou, Kewei, Chen Xue, and Lu Zhang, [Replicating anomalies](#), forthcoming, **Review of Financial Studies**

[Second Prize, the Chicago Quantitative Alliance Academic Competition, 2017]

- [Featured in [A reality check on stock-](#)
[When researchers and investors walk into a bar,](#)
[the investors get hammered](#) [An algorithm, an ETF](#)
[and an academic study walk into a bar](#)]
- [F [Ivory tower](#)
[works help traders make a quick buck](#) [Anomalies,](#)
[itches and promises](#) [A new paper just took a huge](#)
[ric Weiner, May 8, 2017\]](#)
- 2018 Hou, Kewei, Haitao Mo, Chen Xue, and Lu Zhang, [Which factors?](#) forthcoming, **Review of Finance**
- . Second Prize, the Chicago Quantitative Alliance Academic Competition, 2015]
- 2018 Bai, Hang, Kewei Hou, Howard Kung, Erica X. N. Li, and Lu Zhang, [The CAPM strikes back? An equilibrium model with disasters](#), forthcoming, **Journal of Financial Economics**.
- 2018 Petrosky-Nadeau, Nicolas, Lu Zhang, and Lars-Alexander Kuehn, [Endogenous disasters](#), **American Economic Review** 108 (8), 2212-2245.
- 2017 Zhang, Lu, [The investment CAPM](#), **European Financial Management** 23 (4), 545-603, lead article.
- 2017 Petrosky-Nadeau, Nicolas, and Lu Zhang, [Solving the Diamond-Mortensen-Pissarides model accurately](#), **Quantitative Economics** 8 (2), 611-650.
- 2015 Hou, Kewei, Chen Xue, and Lu Zhang, [Digesting anomalies: An investment approach](#), **Review of Financial Studies** 28 (3), 650-
- [The most cited article published at Review of Financial Studies in 2015]
- 2014 Liu, Laura Xiaolei, and Lu Zhang, [A neoclassical interpretation of momentum](#), **Journal of Monetary Economics** 67, 109-128.
- 2014 Tang, Yue, Jin (Ginger) Wu, and Lu Zhang, [Do anomalies exist ex ante?](#) **Review of Finance** 18 (3), 843-875, lead article.
- 2013 Belo, Frederico, Chen Xue, and Lu Zhang, [A supply approach to valuation](#), **Review of Financial Studies** 26 (12), 3029-3067.
- 2013 Lin, Xiaoji, and Lu Zhang, [The investment manifesto](#), **Journal of Monetary Economics** 60 (3), 351-366.
- 2011 Gulen, Huseyin, Yuhang Xing, and Lu Zhang, [Value versus growth: Time-varying expected stock returns](#), **Financial Management** 40 (2), 381-407.
- 2011 Chen, Long, and Lu Zhang, [Do time-varying risk premiums explain labor market performance?](#) **Journal of Financial Economics** 99 (2), 385-399.

- 2010 Li, Dongmei, and Lu Zhang, [Does \$q\$ -theory with investment frictions explain anomalies in the cross-section of returns?](#) **Journal of Financial Economics** 98 (2), 297-314.
- 2010 Wu, Jin (Ginger), Lu Zhang, and X. Frank Zhang, [The \$q\$ -theory approach to understanding the accrual anomaly](#), **Journal of Accounting Research** 48 (1), 177-223.
- 2009 Liu, Laura Xiaolei, Toni M. Whited, and Lu Zhang, [Investment-based expected stock returns](#), **Journal of Political Economy** 117 (6), 1105-1139.
- 2009 Li, Erica X. N., Dmitry Livdan, and Lu Zhang, [Anomalies](#), **Review of Financial Studies** 22 (11), 4301-4334, lead article.
- 2009 Livdan, Dmitry, Horacio Sapriza, and Lu Zhang, [Financially constrained stock returns](#), **Journal of Finance** 64 (4), 1827-1862.
- 2008 Liu, Laura Xiaolei, and Lu Zhang, [Momentum profits, factor pricing, and macroeconomic risk](#), **Review of Financial Studies** 21 (6), 2417-2448.
- 2008 Lyandres, Evgeny, Le Sun, and Lu Zhang, [The new issues puzzle: Testing the investment-based explanation](#), **Review of Financial Studies** 21 (6), 2825-2855.
- [Runner-up for Barclays Global Investors Award for the Best Conference Paper at the 2005 European Finance Association Annual Meetings]
- 2008 Liu, Naiping, and Lu Zhang, [Is the value spread a useful predictor of returns?](#) **Journal of Financial Markets** 11 (3), 199-227, lead article.
- 2008 Campello, Murillo, Long Chen, and Lu Zhang, [Expected returns, yield spreads, and asset pricing tests](#), **Review of Financial Studies** 21 (3), 1297-1338.
- 2008 Chen, Long, Ralitsa Petkova, and Lu Zhang, [The expected value premium](#), **Journal of Financial Economics** 87 (2), 269-280.
- 2006 Gomes, Joao F., Amir Yaron, and Lu Zhang, [Asset financing constraints](#), **Review of Financial Studies** 19 (4), 1321-1356.
- 2005 Petkova, Ralitsa, and Lu Zhang, [Is value riskier than growth?](#) **Journal of Financial Economics** 78 (1), 187-202.
- [Featured in Bodie, Kane, and Marcus, 2014, *Investments*]
- 2005 Zhang, Lu, [The value premium](#), **Journal of Finance** 60 (1), 67-103.
- [First Prize, the Smith-Breeden Award for Best Paper in 2005, the American Finance Association and Journal of Finance]
- [Featured in Bodie, Kane, and Marcus, 2014, *Investments*]

[The 4th most cited article in the literature on anomalies and fundamental analysis since 2000 with the highest average number of citations per year. Source: Richardson, Tuna, and Wysocki (2010, Journal of Accounting and Economics)]

[One of the 25 most cited articles in Journal of Finance since 2004. Source: The American Finance Association Web site]

- 2004 Brandt, Michael W., Qi Zeng, and Lu Zhang, [Equilibrium stock return dynamics under alternative rules of learning about hidden states](#), **Journal of Economic Dynamics and Control** 28 (10), 1925-1954, lead article.
- 2003 Gomes, Joao F., Amir Yaron, and Lu Zhang, [Asset prices and business cycles with costly external finance](#), **Review of Economic Dynamics** 6 (4), 767-788.
- 2003 Gomes, Joao F., Leonid Kogan, and Lu Zhang, [Equilibrium cross section of returns](#), **Journal of Political Economy** 111 (4), 693-732, lead article.

[Reprinted in Stephen A. Ross, Mentor: Influence Through Generations, ed. Mark Grinblatt, McGraw-Hill Irwin, 2008]

Other Publications

- 2018 Zhang, Lu, **European Financial Management**, 24 (4), 487.
- 2016 Zhang, Lu, [Factors war](#), **Tsinghua Financial Review** 37, 101-104 in Chinese; [因子战争](#), **清华金融评论** 37, 101-104.
- 2014 Zhang, Lu, [Exploring asset pricing anomalies](#), **NBER Reporter** 1, 17-19.

Working Papers

Goncalves, Andrei S., Chen Xue, and Lu Zhang, 2017, [Aggregation, capital heterogeneity, and the investment CAPM](#)

Hou, Kewei, Haitao Mo, Chen Xue, and Lu Zhang, 2018, q^5

Hou, Kewei, Chen Xue, and Lu Zhang, 2017, Global q -factors

[Inquire Europe, Institute for Quantitative Investment Research,]

Petrosky-Nadeau, Nicolas, and Lu Zhang, 2013, [Unemployment crises](#)

Zhang, Lu, 2005, [Anomalies](#), NBER working paper 11322, permanent working paper. Runner-up, Best Paper Award at the 2005 Utah Winter Finance Conference

Teaching

Max M. Fisher College of Business, The Ohio State University

Investment Management I, M.B.A. and Undergraduate programs
Theory of Finance, Ph.D.
Advanced Asset Pricing, Ph.D.

Stephen M. Ross School of Business, University of Michigan

Derivative Securities, B.B.A.
Capital Markets and Investment Strategy, M.B.A.
Empirical Methodology in Finance, Ph.D.

William E. Simon Graduate School of Business Administration, University of Rochester

Investments, Corporate Finance, M.B.A.
Advanced Topics in Capital Markets, Ph.D.

Professional Activities

Professional Leadership

China Finance Review International, International Editorial Advisory Board, 2017-present
Critical Finance Review, Associate Editor, 2010-present
European Financial Management, Associate Editor, 2017-present. Guest Editor, Special Issue

Finance Research Letters, Associate Editor, 2013-present
Financial Management, Associate Editor, 2009-2011
Journal of Banking and Finance, Associate Editor, 2015-present
Journal of Financial and Quantitative Analysis, Associate Editor, 2011-present
Journal of Financial Economics, Associate Editor, 2011-present
Management Science, Associate Editor, 2009-2012
Quarterly Journal of Accounting and Finance, Advisory Editor, 2015-present
Review of Financial Studies, Associate Editor, 2009-2012

Service Leadership

Macro Finance Society: Founding President (2012-2013), Board of Directors (2012-2014)

American Finance Association: Nominating Committee (2013)

The Ohio State University: Department of Finance Executive Committee (2011-present),
Fisher College Promotion and Tenure Committee (2012-2016), both elected by faculty

University of Michigan: Finance Area Chair (2009-2010), Chair of Investments Curriculum Task
Force (2008-2009), Ross School of Business Community Values Committee (2007-2008)

Ph.D. Students Supervised

2019

2019 Smoothed returns and shareholder runs: Evidence from
real estate and hedge funds

- 2018 Mengmeng (Mike) Dong, Ohio State. University of California, Riverside
- 2018 Andrei S. Goncalves, Ohio State. Can reinvestment risk explain the dividend and bond term structures? University of North Carolina, Chapel Hill
- 2017 Ivan Alfaro, Ohio State. -ba BI Norwegian Business School
- 2016 Hang Bai, Ohio State. unemployment and credit risk University of Connecticut
- 2015 Woo Hwa Koh, Ohio State. -section of Korea Advanced Institute of Science and Technology (KAIST)
- 2014 Andrew Y. Chen, Ohio State. model of asset prices and aggregate fluctuations. Federal Reserve Board
- 2012 Chen Xue, University of Michigan. -sectional stock returns and mutual fund performance evaluation: An investment-based investigation. University of Cincinnati
- 2009 Ryan Israelsen, University of Michigan. Indiana University
- 2008 Xiaoji Lin, University of Minnesota. cross se London School of Economics
- 2007 Erica Xuenan Li, University of Rochester.

Media Impact

my interview with [Robeco Quarterly](#), September 25, 2018

, my blog interview with Wesley Gray, CEO/CIO, Alpha Architect, LLC, July 25, 2018

[Replicating anomalies in the Chinese A-share market](#), in Chinese, [Replicating Anomalies](#), June 27, 2018

[» i ¶ , J-J^a ù g , Ž " Ý < 3 M PXÝ " , June 14, 2018](#)

[Replicating anomalies in the Chinese A-share market](#), in Chinese, [Replicating Anomalies](#), March 7, 2018

[Will a falling stock market take the job market along with it on the way down?](#) by Martha C. White, NBCNews.com, February 9, 2018

[The value effect and macroeconomic risk](#), [alphaarchitect.com](#), by Larry Swedroe, January 9, 2018

[Podcast interview: The economics of value investing \(_ > Ĩ Æ z \)](#), in Chinese, by Zhijian Wu, CEO, Woodsford Capital Management,

[A reality check on stock-](#), by Wesley Gray, The Wall Street Journal, November 5, 2017

[Asset type matters with factors](#)

[Want to learn more about factor investing? Read this](#), ValueWalk.com, October 26, 2017

[Factor investing conversation with Lu Zhang](#), my blog interview with Wesley Gray, CEO/CIO, Alpha Architect, LLC, October 26, 2017

[Takeaways from a non-phd who powered through a 144-page factor investing paper](#), [alphaarchitect.com](#), by Ryan Kirlin, October 25, 2017

[Bewildering 447 anomalies \(447 , O O 4 4 h?! à £ ò À µ](#)

[Retesting investment anomalies with Dr. Lu Zhang](#), by Jeremy Schwartz, [wisdomtree.com](#)

[Replicating anomalies](#), ValueWalk.com October 15, 2017

[Behind the Markets on Wharton Business Radio](#), hosted by Jeremy Schwartz and Wesley Gray, October 13, 2017

[A 5 factor evaluation](#), ETF.com, by Larry Swedroe, September 25, 2017

[Replicating anomalies](#), [hedge.lu.com](#), July 3, 2017

[Attention aux fake strategies smart beta](#), Associés en Finance, in French, June 30, 2017

[Detective Radio](#), June 30, 2017

, [RealClearAgriculture.com](#), June 23, 2017

[Replicating scientific research: Ugly truth](#), True Economics, June 16, 2017

[Hou, Xue, and Zhang: Replication controversies in finance and accounting](#), The Replication Ne

[Financial anomalies are contingent on being unknown](#), Statistical Modeling, Causal Inference, and Social Science, June 10, 2017

[Are markets efficient if you are a particle physicist?](#)

[Markets Blog](#), June 7, 2017

[Mast investment letter](#)

[Reexamining accepted market wisdom](#)

[le battere il mercato?](#)

[One by one, the anti-EMH arguments collapse](#), TheMoneyIllusion.com

[A practical approach to factor-based investing](#), The Globe and Mail, May 23, 2017

[Most stock anomalies fake news?](#) CXO Advisory, May 23, 2017

[All about microcaps](#), Daily Speculations, May 23, 2017

[Problems with the factor zoo](#), by Larry Swedroe, ETF.com

[How well do anomalies in finance and accounting replicate?](#) The Replication Network

[P-hacking versus skin in the game](#): How can understanding incentive structures help us think about market efficiency? Episodeblog.com

[Weekly top 5 papers May 15th 2017](#), The SSRN Blog

[P-hacking in anomaly research](#), Diary of Imaginary, in Japanese

[Active manager lags despite research](#), by Larry Swedroe, ETF.com, May 12, 2017

[Kicking the tires of market anomalies](#), by James Mackintosh, The Wall Street Journal, Business & Finance B1-B2, May 12, 2017

, Bogleheads.org

[When researchers and investors walk into a bar, the investors get hammered](#), by Jason Zweig, The Wall Street Journal, May 12, 2017

[An algorithm, an ETF and an academic study walk into a bar](#), by James Mackintosh, The Wall Street Journal, May 11, 2017

[Ivory tower wonks help traders make a quick buck](#), by Noah Smith, Bloomberg View, May 11, 2017

[Cleaning out the factor zoo](#), by James Picerno, The Capital Spectator, May 11, 2017, Investing.com, May 11, 2017, Seeking Alpha, May 12, 2017

[Half anomalies are fantasy of the discoverers](#), IEXProfs, in Dutch, May 11, 2017

[Do you think behavioral anomalies will persist?](#) Bogleheads.org

[Do trading costs destroy factor investing?](#) ValueWalk.com

[Anomalies, pitches, and promises](#), by Matt Levine, Bloomberg View, May 9, 2017

[Research paper says most market anomalies are imaginary](#), by Eric Weiner, The Globe and Mail, May 9, 2017

[Forget factors, paper says most market anomalies are imaginary](#), by Eric Weiner, Bloomberg, May 9, 2017

[A new paper just took a huge shot at some of the world's hottest investments](#), by Eric Weiner, Bloomberg, May 8, 2017

[Market anomalies fail to replicate](#), MarginalRevolution.com

[How to make trouble](#), Anti-Dismal.com

[Replicating anomalies](#), No Hesitations

[Financial research, data mining and star wars \(PXÝ B α, f G7'8 □ ñ Ý ë\)](#), in Chinese

[A new benchmark model for estimating expected stock returns](#), Oxford University Press Blog

[CAPM](#), Diary of Imaginary, in Japanese

[Battle of new factor models](#), by Larry Swedroe, ETF.com

[Passive investing's foundations](#), by Larry Swedroe, ETF.com

[Lu Zhang: The q-factor model can be used in quantitative investment management](#), in Chinese, Shanghai Financial News (· PXÝ)

[Improving on Fama-French](#), by Larry Swedroe, ETF.com

[Factor investing is more art, and less science](#), by Wesley Gray, Alpha architect

[A new four-factor investing model](#), by Larry Swedroe, BAM Intelligence

[Is outperforming the market alpha or beta?](#) by Larry Swedroe and Andrew Berkin, The AAIL Journal, American Association of Individual Investors

[Using profitability as a factor? Perhaps you should think twice](#), by Wesley Gray, Alpha architect

[The academic finance papers that changed my mind](#), by Wesley Gray, Alpha architect
[Stock anomaly smorgasbord-Wow!](#) by Wesley Gray, Alpha architect
[Understanding the value premium](#), by Larry Swedroe, ETF.com
[Challenge to the Fama French three factor model](#), Bogleheads.org
[The expected value premium](#), CFA Institute Publications
[Explaining the value premium](#), Index Fund Advisors
[The countercyclical value premium?](#) CXO Advisory
[Is value riskier than growth?](#) Edhec-Risk
[The value of value](#), Advisor Perspectives
[Smart beta: Strategies and implementation](#), PNC.com
[Factor investing](#), tickrз.com
[Value investing: Timeless reading](#), ValueWalk.com