

Personal Information

Given name/Surname:	Feng/Li	Name in Chinese:	李丰
Place of birth:	Inner Mongolia, China	Nationality:	China
Gender:	Male	Languages:	English, Chinese
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Positions

Associate Professor School of Statistics and Mathematics, Central University of Finance and Economics, Beijing 102206, China
Associate Dean (June 2016 – December 2022)

Contacts

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Education

2008–2013 **Ph.D., Statistics**, Stockholm University, Sweden.
Supervisor: Prof. Mattias Villani.
Thesis: *Bayesian Modeling of Conditional Densities*.
(won the 2014 Cramér Prize for the best Ph.D. thesis in Statistics and Mathematical Statistics, awarded by the Swedish Statistics Association)
Thesis opponent: Prof. Sylvia Frühwirth-Schnatter, WU Vienna University of Economics and Business
Assistant supervisor: Prof. Daniel Thorburn.

2007–2008 **Master, Statistics**, Darlarna University, Sweden.

2003–2007 **Bachelor, Statistics**, Renmin University of China.

Research Interests

Bayesian Inference ◦ Econometrics & Forecasting ◦ Machine Learning ◦ Distributed Statistical Computing

Grants

- Hierarchical economic forecasting from a global modeling perspective. Funded by the **National Social Science Fund of China** (2022+). **Principal Investigator**.
- Complex Time Series Forecasting for E-commerce. Funded by **Alibaba Innovative Research Program** (2021 – 2023). **Principal investigator**.
- Development of the Methodologies of Objective Performance Criteria Based Single-Armed Trials for The Clinical Evaluation of Traditional Chinese Medicine. Funded by **National Natural Science Foundation of China** (2020+). **Major Investigator**.
- Efficient Bayesian Flexible Density Methods with High Dimensional Financial Data. Funded by **National Natural Science Foundation of China** (2016 – 2019). **Principal investigator**.
- Bayesian Multivariate Density Estimation Methods for Complex Data. Funded by **Ministry of Education, China** (2014 – 2016). **Principal investigator**.

Publications

(Complete publication list available at <https://scholar.google.com/citations?user=IN2QMXYYYYAJ>)

- [33] Yuqin Huang, Feng Li, Tong Li & Tse-Chun Lin (2024). “Local Information Advantage and Stock Returns: Evidence from Social Media”. *Contemporary Accounting Research* Forthcoming. DOI: [10.2139/ssrn.2501937](https://doi.org/10.2139/ssrn.2501937).
- [32] Feng Li (2024). “A Forecaster’s Review of Judea Pearl’s Causality: Models, Reasoning and Inference, Second Edition, 2009”. *International Journal of Forecasting* 40.(1), pp. 423–425. DOI: [10.1016/j.ijforecast.2023.08.005](https://doi.org/10.1016/j.ijforecast.2023.08.005).
- [31] Li Li, Yanfei Kang & Feng Li (2023a). “Bayesian Forecast Combination Using Time-Varying Features”. *International Journal of Forecasting* 39.(3), pp. 1287–1302. DOI: [10.1016/j.ijforecast.2022.06.002](https://doi.org/10.1016/j.ijforecast.2022.06.002).
- [30] Li Li, Yanfei Kang, Fotios Petropoulos & Feng Li (2023b). “Feature-Based Intermittent Demand Forecast Combinations: Accuracy and Inventory Implications”. *International Journal of Production Research* 61.(22), pp. 7557–7572. DOI: [10.1080/00207543.2022.2153941](https://doi.org/10.1080/00207543.2022.2153941).

- [29] Li Li, Feng Li & Yanfei Kang (2023c). “Forecasting Large Collections of Time Series: Feature-Based Methods”. In: *Forecasting with Artificial Intelligence: Theory and Applications*. Ed. by Mohsen Hamoudia, Spyros Makridakis & Evangelos Spiliotis. Cham: Springer Nature Switzerland, pp. 251–276. ISBN: 978-3-031-35879-1. DOI: [10.1007/978-3-031-35879-1_10](https://doi.org/10.1007/978-3-031-35879-1_10).
- [28] Xiaoqian Wang, Rob J. Hyndman, Feng Li & Yanfei Kang (2023a). “Forecast Combinations: An over 50-Year Review”. *International Journal of Forecasting* 39.(4), pp. 1518–1547. DOI: [10.1016/j.ijforecast.2022.11.005](https://doi.org/10.1016/j.ijforecast.2022.11.005).
- [27] Xiaoqian Wang, Yanfei Kang, Rob J. Hyndman & Feng Li (2023b). “Distributed ARIMA Models for Ultra-Long Time Series”. *International Journal of Forecasting* 39.(3), pp. 1163–1184. DOI: [10.1016/j.ijforecast.2022.05.001](https://doi.org/10.1016/j.ijforecast.2022.05.001).
- [26] Bohan Zhang, Yanfei Kang, Anastasios Panagiotelis & Feng Li (2023). “Optimal Reconciliation with Immutable Forecasts”. *European Journal of Operational Research* 308.(1), pp. 650–660. DOI: [10.1016/j.ejor.2022.11.035](https://doi.org/10.1016/j.ejor.2022.11.035).
- [25] Matthias Anderer & Feng Li (2022). “Hierarchical Forecasting with a Top-down Alignment of Independent-Level Forecasts”. *International Journal of Forecasting* 38.(4), pp. 1405–1414. DOI: [10.1016/j.ijforecast.2021.12.015](https://doi.org/10.1016/j.ijforecast.2021.12.015).
- [24] Yanfei Kang, Wei Cao, Fotios Petropoulos & Feng Li (2022). “Forecast with Forecasts: Diversity Matters”. *European Journal of Operational Research* 301.(1), pp. 180–190. DOI: [10.1016/j.ejor.2021.10.024](https://doi.org/10.1016/j.ejor.2021.10.024).
- [23] Rui Pan, Tunan Ren, Baishan Guo, Feng Li, Guodong Li & Hansheng Wang (2022). “A Note on Distributed Quantile Regression by Pilot Sampling and One-Step Updating”. *Journal of Business & Economic Statistics* 40.(4), pp. 1691–1700. DOI: [10.1080/07350015.2021.1961789](https://doi.org/10.1080/07350015.2021.1961789).
- [22] Fotios Petropoulos, Daniele Apiletti, Vassilios Assimakopoulos, Mohamed Zied Babai, Devon K. Barrow, Souhaib Ben Taieb, Christoph Bergmeir, Ricardo J. Bessa, Jakub Bijak, John E. Boylan, Jethro Browell, Claudio Carnevale, Jennifer L. Castle, Pasquale Cirillo, Michael P. Clements, Clara Cordeiro, Fernando Luiz Cyrino Oliveira, Shari De Baets, Alexander Dokumentov, Joanne Ellison, Piotr Fiszeder, Philip Hans Franses, David T. Frazier, Michael Gilliland, M. Sinan Gönül, Paul Goodwin, Luigi Grossi, Yael Grushka-Cockayne, Mariangela Guidolin, Massimo Guidolin, Ulrich Gunter, Xiaojia Guo, Renato Guseo, Nigel Harvey, David F. Hendry, Ross Hollyman, Tim Januschowski, Jooyoung Jeon, Victor Richmond R. Jose, Yanfei Kang, Anne B. Koehler, Stephan Kolassa, Nikolaos Kourentzes, Sonia Leva, Feng Li, Konstantia Litsiou, Spyros Makridakis, Gael M. Martin, Andrew B. Martinez, Sheik Meeran, Theodore Modis, Konstantinos Nikolopoulos, Dilek Önkal, Alessia Paccagnini, Anastasios Panagiotelis, Ioannis Panapakidis, Jose M. Pavia, Manuela Pedio, Diego J. Pedregal, Pierre Pinson, Patrícia Ramos, David E. Rapach, J. James Reade, Bahman Rostami-Tabar, Michał Rubaszek, Georgios Sermpinis, Han Lin Shang, Evangelos Spiliotis, Aris A. Syntetos, Priyanga Dilini Talagala, Thiyanga S. Talagala, Len Tashman, Dimitrios Thomakos, Thordis Thorarinsdottir, Ezio Todini, Juan Ramón Traperero Arenas, Xiaoqian Wang, Robert L. Winkler, Alisa Yusupova & Florian Ziel (2022). “Forecasting: Theory and Practice”. *International Journal of Forecasting* 38.(3), pp. 705–871. DOI: [10.1016/j.ijforecast.2021.11.001](https://doi.org/10.1016/j.ijforecast.2021.11.001).
- [21] Thiyanga S. Talagala, Feng Li & Yanfei Kang (2022). “FFORMPP: Feature-Based Forecast Model Performance Prediction”. *International Journal of Forecasting* 38.(3), pp. 920–943. DOI: [10.1016/j.ijforecast.2021.07.002](https://doi.org/10.1016/j.ijforecast.2021.07.002).
- [20] Xiaoqian Wang, Yanfei Kang, Fotios Petropoulos & Feng Li (2022a). “The Uncertainty Estimation of Feature-Based Forecast Combinations”. *Journal of the Operational Research Society* 73.(5), pp. 979–993. DOI: [10.1080/01605682.2021.1880297](https://doi.org/10.1080/01605682.2021.1880297).
- [19] Zhiru Wang, Yu Pang, Mingxin Gan, Martin Skitmore & Feng Li (2022b). “Escalator Accident Mechanism Analysis and Injury Prediction Approaches in Heavy Capacity Metro Rail Transit Stations”. *Safety Science* 154, p. 105850. DOI: [10.1016/j.ssci.2022.105850](https://doi.org/10.1016/j.ssci.2022.105850).
- [18] Megan G. Janeway, Xiang Zhao, Max Rosenthaler, Yi Zuo, Kumar Balasubramanian, Michael Poulson, Miriam Neufeld, Jeffrey J. Siracuse, Courtney E. Takahashi, Lisa Allee, Tracey Dechert, Peter A. Burke, Feng Li & Bindu Kalesan (2021). “Clinical Diagnostic Phenotypes in Hospitalizations Due to Self-Inflicted Firearm Injury”. *Journal of Affective Disorders* 278, pp. 172–180. DOI: [10.1016/j.jad.2020.09.067](https://doi.org/10.1016/j.jad.2020.09.067).
- [17] Yanfei Kang, Evangelos Spiliotis, Fotios Petropoulos, Nikolaos Athinotis, Feng Li & Vassilios Assimakopoulos (2021). “Déjà vu: A Data-Centric Forecasting Approach through Time Series Cross-Similarity”. *Journal of Business Research* 132, pp. 719–731. DOI: [10.1016/j.jbusres.2020.10.051](https://doi.org/10.1016/j.jbusres.2020.10.051).
- [16] Xuening Zhu, Feng Li & Hansheng Wang (2021). “Least-Square Approximation for a Distributed System”. *Journal of Computational and Graphical Statistics* 30.(4), pp. 1004–1018. DOI: [10.1080/10618600.2021.1923517](https://doi.org/10.1080/10618600.2021.1923517).
- [15] Chengcheng Hao, Feng Li & Dietrich von Rosen (2020). “A Bilinear Reduced Rank Model”. In: *Contemporary Experimental Design, Multivariate Analysis and Data Mining*. Ed. by Jianqing Fan & Jianxin Pan. Springer Nature. DOI: [10.1007/978-3-030-46161-4_21](https://doi.org/10.1007/978-3-030-46161-4_21).

- [14] Bindu Kalesan, Siran Zhao, Michael Poulson, Miriam Neufeld, Tracey Dechert, Jeffrey J Siracuse, Yi Zuo & Feng Li (2020). “Intersections of Firearm Suicide, Drug-Related Mortality, and Economic Dependency in Rural America”. *Journal of Surgical Research* 256, pp. 96–102. DOI: [10.1016/j.jss.2020.06.011](https://doi.org/10.1016/j.jss.2020.06.011).
- [13] Yanfei Kang, Rob J. Hyndman & Feng Li (2020). “GRATIS: GeneRAting TIme Series with Diverse and Controllable Characteristics”. *Statistical Analysis and Data Mining: The ASA Data Science Journal* 13.(4), pp. 354–376. DOI: [10.1002/sam.11461](https://doi.org/10.1002/sam.11461).
- [12] Xixi Li, Yanfei Kang & Feng Li (2020). “Forecasting with Time Series Imaging”. *Expert Systems with Applications* 160, p. 113680. DOI: [10.1016/j.eswa.2020.113680](https://doi.org/10.1016/j.eswa.2020.113680).
- [11] 康雁飞 & 李丰 (2020a). 统计计算. 在线出版. URL: <https://feng.li/files/statscompbook/>.
- [10] 康雁飞 & 李丰 (2020b). 预测：方法与实践. 在线出版. URL: <https://otexts.com/fppcn/>.
- [9] Hannah M. Bailey, Yi Zuo, Feng Li, Jae Min, Krishna Vaddiparti, Mattia Prosperi, Jeffrey Fagan, Sandro Galea & Bindu Kalesan (2019). “Changes in Patterns of Mortality Rates and Years of Life Lost Due to Firearms in the United States, 1999 to 2016: A Joinpoint Analysis”. *PLOS ONE* 14.(11), e0225223. DOI: [10.1371/journal.pone.0225223](https://doi.org/10.1371/journal.pone.0225223).
- [8] Feng Li & Zhuojing He (2019). “Credit Risk Clustering in a Business Group: Which Matters More, Systematic or Idiosyncratic Risk?” *Cogent Economics & Finance* 7.(1). Ed. by David McMillan, p. 1632528. DOI: [10.1080/23322039.2019.1632528](https://doi.org/10.1080/23322039.2019.1632528).
- [7] Feng Li & Yanfei Kang (2018). “Improving Forecasting Performance Using Covariate-Dependent Copula Models”. *International Journal of Forecasting* 34.(3), pp. 456–476. DOI: [10.1016/j.ijforecast.2018.01.007](https://doi.org/10.1016/j.ijforecast.2018.01.007).
- [6] Elizabeth C. Pino, Yi Zuo, Camila Maciel De Olivera, Shruthi Mahalingaiah, Olivia Keiser, Lynn L. Moore, Feng Li, Ramachandran S. Vasan, Barbara E. Corkey & Bindu Kalesan (2018). “Cohort Profile: The MULTI sTUDy Diabetes rEsearch (MULTITUDE) Consortium”. *BMJ Open* 8.(5), e020640. DOI: [10.1136/bmjopen-2017-020640](https://doi.org/10.1136/bmjopen-2017-020640).
- [5] 李丰 (2016). 大数据分布式计算与案例. 第一版. 中国人民大学出版社. ISBN: 978-7-300-23027-6. URL: <https://feng.li/files/distcompbook/>.
- [4] Feng Li (2013). “Bayesian Modeling of Conditional Densities”. Department of Statistics, Stockholm University. ISBN: 978-91-7447-665-1. URL: <http://urn.kb.se/resolve?urn=urn:nbn:se:su:diva-89426>.
- [3] Feng Li & Mattias Villani (2013). “Efficient Bayesian Multivariate Surface Regression”. *Scandinavian Journal of Statistics* 40.(4), pp. 706–723. DOI: [10.1111/sjos.12022](https://doi.org/10.1111/sjos.12022).
- [2] Feng Li, Mattias Villani & Robert Kohn (2011). “Modelling Conditional Densities Using Finite Smooth Mixtures”. In: *Mixtures: Estimation and Applications*. John Wiley & Sons, pp. 123–144. ISBN: 978-1-119-99567-8. DOI: [10.1002/9781119995678.ch6](https://doi.org/10.1002/9781119995678.ch6).
- [1] Feng Li, Mattias Villani & Robert Kohn (2010). “Flexible Modeling of Conditional Distributions Using Smooth Mixtures of Asymmetric Student t Densities”. *Journal of Statistical Planning and Inference* 140.(12), pp. 3638–3654. DOI: [10.1016/j.jspi.2010.04.031](https://doi.org/10.1016/j.jspi.2010.04.031).

Software

I develop open-source statistical and machine learning software for large-scale data running on the Apache Spark distributed computing platform. Detailed software information is available at my code repository <https://github.com/feng-li>.

Package	Description	Language	Environment	Available On
gratis	Efficient algorithms for generating time series with diverse and controllable characteristics. <i>(Selected in R Task View for Time Series)</i> .	R	All	CRAN, GitHub
febama	Feature-based Bayesian Forecasting Model Averaging	R	All	GitHub
fide	Feature-based Intermittent DEMand forecasting	R	All	GitHub
fuma	Forecast uncertainty based on model averaging	R	All	GitHub
fformpp	Feature-based FORecast Model Performance Prediction	R	All	GitHub
dng	Distribution and Gradients for Skewed Distributions <i>(Selected in R Task View for Probability Distributions)</i>	R	All	CRAN, GitHub
pyhts	A python package for hierarchical forecasting	Python	All	GitHub, PyPi
dlsa	Distributed Least Squares Approximation implemented with Apache Spark	Python	Spark	GitHub
darima	Distributed ARIMA models implemented with Apache Spark	Python	Spark	GitHub
dqr	Distributed Quantile Regression by Pilot Sampling and One-Step Updating	Python	Spark	GitHub
cdcopula	Covariate-dependent copula models	R	All	GitHub
movingknots	Efficient Bayesian Multivariate Surface Regression	R	All	GitHub
flutils	A collection of R functions which is required from my other packages	R	All	GitHub
GSM	Flexible Modeling of Conditional Distributions using Smooth Mixtures of Asymmetric Student T Densities	Matlab	All	GitHub

Teaching

Course	Level	Credit	Place	Year
Statistical Computing	U	3	CUFE	2014–
Distributed Statistical Computing: I	G	3	CUFE	2014–
	U	3	CUFE	2020–
	BA	2	PKU	2020–
	G	3	CUEB	2020–2021
	G	3	RUC	2014–2019
Distributed Statistical Computing: II	U	3	CUFE	2021–
Python and Data Mining	MBA	2	CUFE	2021–
	G	2	CUFE	2015
Tools for Data Science	U	2	CUFE	2019–
Statistics Case Studies	G	3	CUFE	2017–2018
Bayesian Statistics*	G	2	CNU	2017
	G	2	CUFE	2013
	G	2	SU	2013
Programming with R*	U	2	LIU	2012
Statistical Software	U	2	CUFE	2014
Econometrics*	U	3	CUFE	2013–2015
Academic English in Statistics*	G	2	CUFE	2013–2016
Time Series Analysis*	G	2	CUFE	2015–2016
	U	2	SU	2008–2013
Regression Analysis*	U	2	SU	2008–2013

(All course materials are available at <https://feng.li/teaching/>. Courses marked with * are taught in English. U: undergraduate level, G: graduate level.)

Recent Presentations and Invited Talks

- The 2023 ICSA China Conference, June 30 – July 3, 2023, Sichuan, China.
- The 41st International Symposium on Forecasting, 27-28 June, 2021.
- The 2021 World Meeting of the International Society for Bayesian Analysis, 2 July, 2021.
- The 40th International Symposium on Forecasting, Virtual. 28 July, 2021.
- The 40th International Symposium on Forecasting, Virtual. 26 October, 2020.
- Twelfth International Conference on Monte Carlo Methods and Application (MCM 2019), Sydney, Australia, from July 8 to 12, 2019.

- 39th International Symposium on Forecasting, Thessaloniki, Greece 16-19 June 2019.
- ICSA Conference on Data Science, January 11-13, 2019, Xishuangbanna, China.
- School of Data Science, Fudan University, Oct 28-30, 2017, Shanghai, China
- International Symposium on Financial Engineering and Risk Management 2018, June 13, 2018, Shanghai, China.
- School of Data Science, Fudan University, Oct 28-30, 2017, Shanghai, China
- IMS-China International Conference on Statistics and Probability, June 28 –July 1, 2017, Nanning, China.
- The 1st International Conference on Econometrics and Statistics, Hong Kong, 15-17 June 2017.
- The 2016 World Meeting of the International Society for Bayesian Analysis, Jun 13 – 17, 2016, Sardinia, Italy.
- IMS-China International Conference on Statistics and Probability, June 1-4, 2015, Kunming, China.
- International Symposium on Financial Engineering and Risk Management 2014, June 27, 2014, Beijing, China.
- Guanghua School of Management Peking University, Oct 14, 2013, Beijing, China
- The Stockholm University Forskardagarna, 2-3 Oct, 2013, Stockholm, Sweden.
- The 59th World Statistics Congress, August 25-29, 2013, Hong Kong.
- The 2012 World Meeting of the International Society for Bayesian Analysis, Jun 25–29, 2012, Japan. Poster presentation.
- The third Linnaeus University Workshop in Stochastic Analysis and Applications, May 24–25, Växjö. Invited speaker.
- Seminar at Department of Energy and Technology, Swedish University of Agricultural Sciences, Apr 16, 2012, Sweden.
- Workshop on “Analysis of High-Dimensional Data”, Jönköping International Business School, Feb 16–17, 2012, Sweden. Invited speaker.
- The LiU Seminar Series in Statistics and Mathematical Statistics, Linköping University, Oct 11, 2011, Sweden. Invited speaker.
- The 42nd Winter Conference in Statistics – Incomplete data: semi-parametric and Bayesian methods, Mar 6–10, 2011, Sweden. Invited speaker.
- The 2010 World Meeting of the International Society for Bayesian Analysis, Jun 3–8, 2010, Spain. Poster presentation.
- Seminar at Department of statistics, Uppsala University, Sep 16, 2009, Sweden.

Other Conferences & Activities

- Visiting Devison of Statistics, Department of Computer and Information Science, Linköping University, Sweden, Sep 1, 2011 – Feb 29, 2012.
- Intensive PhD course: “Introduction to Bayesian Analysis and MCMC, and, Hierarchical Modelling of Spatial and Temporal Data” by Alan Gelfand (Duke University) and Sujit Sahu (University of Southampton), June 7–10, 2011, University of Southampton, UK.
- Intensive PhD course: “Semi-Parametric Bayesian Inference in Econometrics” by Peter Rossi (University of Chicago), May 27–29, 2009, Erasmus University Rotterdam, The Netherlands.
- Conference “Modeling and Forecasting Economic and Financial Time Series with State Space models”, Central Bank of Sweden, Oct 17–18, 2008.

Awards

- The 2014 Cramér Prize, Mar 2014.
- International Society for Bayesian Analysis junior travel award, Jun, 2012.
- Travel grant from The Knut and Alice Wallenberg Foundation, Aug, 2011, Sweden.
- Outstanding graduate student, honored by Beijing Municipal Education Commission, Jul, 2007, China.

Computer Skills

- Skilled in GNU/Linux and have rich programming experience on large Linux CPU/GPU clusters with Hadoop/Spark.
- Proficient in R and Python and Matlab.
- Good at C/C++.

Conferences Organized

- 2017: The 2017 Beijing Workshop on Forecasting.
- 2016: Annual Conference of Chinese Association of Quantitative Economics.
- 2014: Executive secretary of International Symposium on Financial Engineering and Risk Management 2014.
- 2013: The Swedish Research Students Conference in Statistics.
- 2013: 2012–2013, PhD. Study Group, Department of Statistics, Stockholm University.

Academic Services

- Mentor, the United Nations Big Data Hackathon, 2022–2023.
- Peer reviewed for over 30 high-ranked journals in statistics, data science, medical statistics, and management. Full review records are available at <https://orcid.org/0000-0002-4248-9778>. Selected journals list below.
 - *Omega - The International Journal of Management Science*

- *Pattern Recognition*
- *Neurocomputing*
- *Journal of Business and Economics Statistics*
- *International Journal of Forecasting*
- *Computational Statistics and Data Analysis*
- *Information Sciences*

Academic Visiting

- 2014 Aug, Toronto University, Canada
- 2013 Oct, Stockholm University, Sweden
- 2011 Sep – 2012 March, Linköping University, Sweden
- 2011 June, University of Southampton, UK
- 2009 May, Erasmus University Rotterdam, The Netherlands

Society Memberships

- Member, International Institute of Forecasters
- Member, American Statistical Association
- Member, International Society for Bayesian Analysis