

Personal Information

Given name/Surname:	Feng/Li	Name in Chinese:	李丰
Place of birth:	Inner Mongolia, China	Nationality:	Chinese
Gender:	Male	Languages:	English, Chinese
ORCID	0000-0002-4248-9778	G	https://scholar.google.com/citations?user=IN2QMXYYYYAAAJ

Position

2024 July – now Associate Professor Guanhua School of Management, Peking University, Beijing 100871, China

Past Appointments

2020 November – 2024 June	Associate Professor	School of Statistics and Mathematics, Central University of Finance and Economics, Beijing 102206, China
2016 July – 2022 December	Associate Dean	School of Statistics and Mathematics, Central University of Finance and Economics, Beijing 102206, China
2013 September – 2020 October	Assistant Professor	School of Statistics and Mathematics, Central University of Finance and Economics, Beijing 102206, China

Contacts

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Education

2008–2013	Ph.D., Statistics, Stockholm University, Sweden. Supervisor: Prof. Mattias Villani. Thesis: <i>Bayesian Modeling of Conditional Densities</i> . (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, Vienna University of Economics and Business (WU) 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

- Evaluation on Sports Betting Market. Funded by the Hong Kong Jockey Club (Beijing) (2024+). Principal Investigator, CNY 670,000.
- Hierarchical economic forecasting from a global modeling perspective. Funded by the National Social Science Fund of China (2022+). Principal Investigator, CNY 200,000.
- Complex Time Series Forecasting for E-commerce. Funded by Alibaba Innovative Research Program (2021 – 2023). Principal investigator, CNY 470,000.
- 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, CNY 150,000.
- Efficient Bayesian Flexible Density Methods with High Dimensional Financial Data. Funded by National Natural Science Foundation of China (2016 – 2019). Principal investigator, CNY 200,000.
- Bayesian Multivariate Density Estimation Methods for Complex Data. Funded by Ministry of Education, China (2014 – 2016). Principal investigator, CNY 50,000.

Publications

(Complete publication list available at <https://scholar.google.com/citations?user=IN2QMXYYYYAAAJ>)

[37] Yuan Gao, Rui Pan, Feng Li, Riquan Zhang & Hansheng Wang (2024). “Grid Point Approximation for Distributed Nonparametric Smoothing and Prediction”. *Journal of Computational and Graphical Statistics* (In Press), pp. 1–29. DOI: [10.1080/10618600.2024.2409817](https://doi.org/10.1080/10618600.2024.2409817).

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- [34] Han Wang, Wen Wang, Feng Li, Yanfei Kang & Han Li (2024). “Catastrophe Duration and Loss Prediction via Natural Language Processing”. *Variance* Forthcoming.
- [33] 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).
- [32] 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).
- [31] 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).
- [30] Yinuo Ren, Feng Li, Yanfei Kang & Jue Wang (2023). “Infinite Forecast Combinations Based on Dirichlet Process”. In: *2023 IEEE International Conference on Data Mining Workshops (ICDMW)*. 2023 IEEE International Conference on Data Mining Workshops (ICDMW), pp. 579–587. DOI: [10.1109/ICDMW60847.2023.00081](https://doi.org/10.1109/ICDMW60847.2023.00081).
- [29] 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).
- [28] 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).
- [27] Bohan Zhang, Yanfei Kang, Anastasios Panagiotelis & Feng Li (2023a). “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).
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- [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).
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- [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).
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- [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 Proserpi, 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).
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- [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. (Selected in R Task View for Time Series).	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 (Selected in R Task View for Probability Distributions)	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

As an educator in the field of Statistics, with a specific focus on Big Data and Artificial Intelligence, my teaching philosophy is rooted in the belief that education is a transformative process that goes beyond the mere transfer of knowledge. It is a dynamic and reciprocal exchange that empowers students to think critically, solve real-world problems, and become lifelong learners. In every year since 2013, student evaluations have given an average rating for my teaching above 95 out of 100.

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 23rd IEEE International Conference on Data Mining, December 1 - 4, 2023, Shanghai, China.
- The 9th International Forum on Statistics (RUC IFS 2023), July 14-15, 2023, Beijing, China.
- 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, July 2, 2021.
- The 40th International Symposium on Forecasting, Virtual. October 26, 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 Division 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