Zhen Chen, Ph.D.

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Working Experience

2023.12–present	🔖 **Lecturer in Operation & Supply Chain Management.** Business School, Brunel University London
2022.06–2023.06	🔖 **Visiting scholar.** Business School, University of Edinburgh Host Professor: Roberto Rossi
2019.02–2023.12	🔖 **Lecturer.** College of Economics and Management, Southwest University, China.
2018.09–2018.12	🔖 **Post doc.** School of Economics and Business Administration, Chongqing University, China.

Education

2014.09 – 2018.06	🔖 **PhD, Management Science and Engineering, Beihang University, Beijing, China.** Thesis title: *Lot sizing problems considering supply chain financing.* Supervisor: Professor Ren-qian Zhang, Professor Roberto Rossi
2016.09 – 2017.08	🔖 **Visiting PhD student, Management Science and Business Economics, University of Edinburgh, Edinburgh, UK.** Paper title: *Single item lot sizing problem with business overdraft.* Supervisor: Professor Roberto Rossi
2010.09 – 2013.01	🔖 **Master. Management Science and Engineering, Beihang University, Beijing, China.**
2006.09 – 2010.06	🔖 **Bachelor. Business Administration, Northeastern University, Qinhuangdao, China.**

Research Fields

- 🔖 inventory management
- 🔖 supply chain financing
- 🔖 stochastic modelling and programming

Research Publications

Journal Article

1. **Chen**, **Z.**, Rossi, R., Martin-Barragan, B., & Tarim, A. (2023). Workforce planning with stochastic turnover [27–28 April]. *4th IMA and OR Society Conference on Mathematics of Operational Research.*

2. Rossi, R., **Chen**, **Z.**, & Tarim, S. A. (2023). On the stochastic inventory problem under order capacity constraints [(ABS 4, DOI: 10.1016/j.ejor.2023.06.045)]. *European Journal of Operational Research.*

3. **Chen**, **Z.** (2022). A cash-flow inventory problem maximising the survival probability with joint chance constraint [3–6 July]. *32nd European Conference on Operational Research (EURO 2022).*

4. **Chen**, **Z.**, & Zhang, R.-q. (2022). A multi-period multi-product stochastic inventory problem with order-based loan [(ABS 3, DOI: 10.1080/00207543.2021.2006818)]. *International Journal of Production Research.*

5. **Chen**, **Z.**, & Rossi, R. (2021). A dynamic ordering policy for a stochastic inventory problem with cash constraints [(ABS 3, DOI: 10.1016/j.omega.2020.102378)]. *OMEGA: the International Journal of Management Science, 102.*

6. **Chen**, **Z.**, & Zhang, R.-q. (2021). A cash-constrained dynamic lot-sizing problem with loss of goodwill and credit-based loan [(ABS 1)]. *International Transactions in Operational Research*, *28*(5), 2841–2866.

7. **Chen**, **Z.**, & Rossi, R. (2019). A cash constrained single item stochastic lot-sizing problem. *IFAC-PapersOnLine*, *52*(13), 1479–1483.

8. **Chen**, **Z.**, & Zhang, R.-q. (2019). Single item lot sizing problem considering loan and capital constraint. *Journal of System engineering (in Chinese)*, *34*(02), 266–276 + 288.

9. **Chen**, **Z.**, & Zhang, R. (2018). A capital flow-constrained lot-sizing problem with trade credit. *Scientia Iranica. Transaction E, Industrial Engineering*, *25*(5), 2775–2787.

10. **Chen**, **Z.**, & Rossi, R. (2017). Stochastic lot sizing problem considering capital flow and business overdraft [23–25 August]. *8th International Workshop on Lot Sizing*, 59–62.

11. **Chen**, **Z.**, Wu, Y., & Zhao, Q. (2015). Research on an independent ordering model and a joint ordering model of retailers under a new variable lead time. *Industrial Engineering and Management (in Chinese)*, *20*(04), 61–67.

12. **Chen**, **Z.**, & Xu, L. (2015). Comparative analysis on the operating costs of freight enterprises under implementation of carbon policies [(in Chinese)]. *Industrial Engineering*, (03), 55–62.

13. **Chen**, **Z.**, & Zhao, Q. (2012). An analysis for multi plant location problem under concurrent implementation of different carbon policies [10–12 August]. *International Asia Conference on Industrial Engineering & Management Innovation*, 1359–1367.

Working paper

1. **Chen**, **Z.**, & Archibald, W. T. (2023). *Maximising the survival probability of a cash-flow inventory problem with joint service level constraint* [(R&R to International Journal of Production Economics, ABS 3)].

2. **Chen**, **Z.**, Rossi, R., Belen, M.-B., & Tarim, A. (2023). *Working force planning with stochastic turn over* [(submitted to Operations Research Letters, ABS 2)].

Projects

- *"Data-driven demand forecasting, inventory and financing management and their integration research"* Youth Project of National Natural Science Foundation of China, 2022-2024, Project No. 72101213, £37,500 (PI)
- *"Multi-period inventory control for online retailers under supply chain financing"* Fundamental Research Funds for the Central Universities, 2019-2023, Project No. SWU1909738, £18,750 (PI)
- *"Big data application research in the risk control of supply chain financing in Chongqing"* Chongqing Social Science Planning Fund, 2021-2023, Project No. 2020BS49, £625 (PI)
- *"Financial technology application research in supply chain financing"* Research Funds of the Research Institute of Intelligent Finance and Platform Economics, Southwest University, 2020-2021, Project No. 20YJ0105, £2,500 (PI)

Teach

At Brunel University London:
- Business Modelling and Simulation in Supply Chains (master students)

At Southwest University:
- Principle of Statistics (undergraduate students)
- Multivariate Statistics (undergraduate students)
- Decision Theory and Methods (undergraduate students)
- Production and Operation Management (undergraduate students)
- Python Programming (undergraduate & master students)
- Advanced Applied Mathematical Statistics (PhD students, co-teach with two other teachers)

Reviewer activity

I regularly review research articles for the academic journals listed below:
- European Journal of Operational Research (ABS 4)

Reviewer activity (continued)

- OMEGA: the International Journal of Management Science (ABS 3)
- International Journal of Production Research (ABS 3)
- Computers & Operations Research (ABS 3)
- Computers & Industrial Engineering (ABS 2)

Academic membership

- Member of the Institute of Mathematics and its Applications (IMA, UK)
- Member of the Systems Engineering Society of China
- Member of the Operation Research Society of China

References

Professor Roberto Rossi
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