Curriculum Vitae: **Dr. Zhi-Hai Zhang**

| CONTACT INFORMATION | Associate Professor
Room 518, Shunde Building,
Department of Industrial Engineering
Tsinghua University
Beijing, 100084, China
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Web of Science ResearcherID: L-8785-2019 |

RESEARCH INTERESTS

Operational Management in Supply Chain and Production/Logistics Systems: supply chain management and optimization, production planning and scheduling, resource allocation, data-driven decision making, smart manufacturing, optimization, sustainability supply chain.

CURRENT ACADEMIC APPOINTMENTS

Tenure-track Associate Professor, **July 2013 to present**
Tsinghua University

Associate Professor, **January 2006 to July 2013**
Tsinghua University, China
  Department of Industrial Engineering
- Affiliations:
  - Institute of Engineering Systems
  - Research Center of Smart Manufacturing

PREVIOUS ACADEMIC APPOINTMENTS

Visiting Professor **July 2008 to July 2009**
Department of Industrial Engineering and Operation Research, University of California at Berkeley, USA

Visiting Professor **October 2003 to January 2004**
WZL, RWTH-Aachen University, Germany

Assistant Professor, **February 2002 to December 2005**
Tsinghua University, China
  Department of Industrial Engineering

EDUCATION

Tsinghua University, Beijing, China

Ph.D., Mechanical Manufacturing and Automation, **July, 2002**
- Thesis Topic: *Research on Instantaneous Mechanical Model and Nonlinear Dynamic Characteristics for Milling Process System*
- Adviser: Professor Bopeng Zhang
- Area of Study: Mechanical Engineering

B.S., Mechanical Manufacturing and Automation, **July, 1997**

REFEREED JOURNAL PUBLICATIONS

[1], [2]

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[1]*: corresponding author
[2]author with underline: student supervised

[1] Liang, J., Wang, Y., **Zhang, Z. H.***, Sun, Y. (2019). Energy efficient production planning and scheduling problem with processing technology selection. *Computers & Industrial Engineering*
DOI:10.1016/j.cie.2019.04.042.

[2] Tian, X., **Zhang, Z. H.*** (2019). Capacitated disassembly scheduling and pricing of returned products with price-dependent yield. *Omega: The International Journal of Management Science*, 84, 160-174,
DOI:10.1016/j.omega.2018.04.010.

[3] Liu, Kanglin, Li, Qiaofeng, **Zhang, Z. H.*** (2019). Distributionally robust optimization of an emergency medical service station location and sizing problem with joint chance constraints. *Transportation Research Part B: Methodological*, 119, 79-101,
DOI:10.1016/j.trb.2018.11.012

[4] Li, Qiaofeng, Liu, Kanglin, **Zhang, Z. H.*** (2018). Robust design of a reverse logistics network for photovoltaic modules with resource price uncertainties. *IISE Transactions*
DOI:10.1080/24725854.2018.1501169

[5] **Zhang, Z. H.**, Gemma Berenguer*, Pan X. (2019). Location, inventory and testing decisions in closed-loop supply chains: a multimedia company. *IISE Transactions*, 51, 1, 41-56,
DOI:10.1080/24725854.2018.1494868

[6] Zhang, Yanzi, **Zhang, Z. H.*** (2019). Impact of cannibalization between new and remanufactured products on supply chain design and operation. *IISE Transactions*, 51, 1, 22-40,
DOI:10.1080/24725854.2018.1486055.

[7] Chaher Alzaman, **Zhang, Z. H.**, Ali Diabat* (2018). Supply Chain Network Design with Direct and Indirect Production Costs: Hybrid Gradient and Local Search Based Heuristics. *International Journal of Production Economics*,203, 203-215,
DOI:10.1016/j.ijpe.2018.06.004

[8] Hamid Salamati*, **Zhang Z. H.**, Omid Zarei, Reza Ramezanian (2018). Trade-off between the costs and the fairness for a collaborative production planning problem in make-to-order manufacturing. *Computers & Industrial Engineering*, 126, 421-434,
DOI:10.1016/j.cie.2018.09.044.

[9] Liu, K., **Zhang, Z. H.***. (2018). Capacitated disassembly scheduling under stochastic yield and demand. *European Journal of Operational Research*, 269, 244-257,
DOI:10.1016/j.ejor.2017.08.032.

[10] Liu, C., Wang, C., **Zhang, Z. H.**, Zheng, L.* (2018). Scheduling with job-splitting considering learning and the vital-few law. *Computers & Operations Research*, 90, 264-274.
DOI:10.1016/j.cor.2017.02.011.

[11] Bai, D., Tang, M., **Zhang, Z. H.***, Santibanez-Gonzalez E. D. (2018). Flow shop learning effect scheduling problem with release dates. *Omega: The International Journal of Management Science*, 78, 21-38.
DOI:10.1016/j.omega.2017.10.002.

[12] Cheng, N.*, **Zhang, Z. H.**, Huang, S., Zheng, L. (2018). Chinese consumer responses to carbon labeling: evidence from experimental auctions. *Journal of Environmental Planning and Management*, 61:13, 2319-2337.
DOI:10.1080/09640568.2017.1394276.

[13] Bai, D., Liang, J., Liu, B., Tang, M., **Zhang, Z. H.*** (2017), Permutation flow shop scheduling problem to minimize nonlinear objective function with release dates, *Computers & Industrial Engineering*, 112, 336-347.
DOI:10.1016/j.cie.2017.08.031.

[14] Bai, D., **Zhang, Z. H.***, Zhang, Q., Tang, M. (2017). Open shop scheduling problem to minimize total weighted completion time. *Engineering Optimization*, 49, 98-112.
DOI:10.1080/0305215X.2016.1164854

[15] Wang, C., Liu, C., **Zhang, Z. H.**, Zheng, L.* (2016). Minimizing the total completion time for parallel machine scheduling with job splitting and learning. *Computers & Industrial Engineering*, 97, 170-180.
DOI:10.1016/j.cie.2016.05.001

[16] **Zhang, Z. H.***, Unnikrishnan, A. (2016). A coordinated location-inventory problem in closed-loop supply chain. *Transportation Research Part B: Methodological*, 89, 127-148.
DOI:10.1016/j.trb.2016.04.006

[17] Qin, H., **Zhang, Z. H**.*, Bai, D. (2016). Permutation flowshop group scheduling with position-based learning effect. *Computers & Industrial Engineering*, 92, 1-15.
DOI:10.1016/j.cie.2015.12.001

[18] Santibanez-Gonzalez, E. D., Sarkis, J., Dolgui, A., Koh, L., Govindan, K., Jin, M., · · · & **Zhang, Z.** (2016). Low carbon economy and equitable society: production, supply chain, and operations management perspectives. *Journal of Cleaner Production*, (117), 7-9. DOI:10.1016/j.jclepro.2016.01.003

[19] Bai, D. *, **Zhang, Z. H.**, & Zhang, Q. (2016). Flexible open shop scheduling problem to minimize makespan. *Computers & Operations Research*, 67, 207-215.
DOI:10.1016/j.cor.2015.10.012

[20] Ji, X., **Zhang, Z. H.**, Huang, S.*, & Li, L. (2016). Capacitated disassembly scheduling with parts commonality and start-up cost and its industrial application. *International Journal of Production Research*, 54 (4), 1225-1243.
DOI:10.1080/00207543.2015.1058536.

[21] **Zhang, Z. H.***, & Li, K. (2015). A novel probabilistic formulation for locating and sizing emergency medical service stations. *Annals of Operations Research*, 229 (1), 813-835.
DOI:10.1007/s10479-014-1758-4

[22] Movahed, K. K., & **Zhang, Z. H.*** (2015). Robust design of (s, S) inventory policy parameters in supply chains with demand and lead time uncertainties. *International Journal of Systems Science*, 46 (12), 2258-2268.
DOI:10.1080/00207721.2013.860637

[23] Chen, X., Huang, S.*, Chen, D., **Zhang, Z. H.**, Zheng, L., Grossmann, I., & Chen, S. (2014). Hierarchical Decomposition Approach for Crude Oil Scheduling: A SINOPEC Case. *Interfaces*, 44 (3), 269-285.
DOI:10.1287/inte.2014.0744

[24] **Zhang, Z. H.**, Berenguer, G., & Shen, Z. J*. (2015). A capacitated facility location model with bidirectional flows. *Transportation Science*, 49 (1), 114-129.
DOI:10.1287/trsc.2013.0496

[25] **Zhang, Z. H.***, Li, B. F., Qian, X., & Cai, L. N. (2014). An integrated supply chain network design problem for bidirectional flows. *Expert Systems with Applications*, 41 (9), 4298-4308.
DOI:10.1016/j.eswa.2013.12.053

[26] **Zhang, Z. H.***, & Bai, D. (2014). An extended study on an open-shop scheduling problem using the minimisation of the sum of quadratic completion times. *Applied Mathematics and Computation*, 230, 238-247.
DOI:10.1016/j.amc.2013.12.127

[27] Pan, T., **Zhang, Z. H.***, & Cao, H. (2014). Collaborative production planning with production time windows and order splitting in make-to-order manufacturing. *Computers & Industrial Engineering*, 67, 1-9.
DOI:10.1016/j.cie.2013.10.006.

[28] Bai, D.*, & **Zhang, Z. H.** (2014). Asymptotic optimality of shortest processing time-based algorithms for flow shop and open shop problems with nonlinear objective functions. *Engineering Optimization*, 46 (12), 1709-1728.
DOI:10.1080/0305215X.2013.858139

[29] **Zhang, Z. H.***, & Jiang, H. (2014). A robust counterpart approach to the bi-objective emergency medical service design problem. *Applied Mathematical Modelling*, 38 (3), 1033-1040.
DOI:10.1016/j.apm.2013.07.028

[30] Bai, D.*, & **Zhang, Z. H.** (2014). On the asymptotic optimality and improved strategies of SPTB heuristic for open-shop scheduling problem. *International Journal of Systems Science*, 45 (8), 1657-1667.
DOI:10.1080/00207721.2012.748943

[31] Guo, M., Li, B.*, **Zhang, Z. H.**, Wu, S., & Song, J. (2013). Efficiency evaluation for allocating community-based health services. *Computers & Industrial Engineering*, 65 (3), 395-401.
DOI:10.1016/j.cie.2013.03.008

[32] **Zhang, Z. H.***, Jiang, H., & Pan, X. (2012). A Lagrangian relaxation based approach for the capacitated lot sizing problem in closed-loop supply chain. *International Journal of Production Economics*, 140 (1), 249-255.
DOI:10.1016/j.ijpe.2012.01.018

[33] Zhang, C., **Zhang, Z. H.**, Zheng, L.*, & Miao, L. (2011). A decision support system for the allocation of yard cranes and blocks in container terminals. *Asia-Pacific Journal of Operational Research*, 28 (06), 803-829.
DOI:10.1142/S0217595911003351

[34] Zhang, C., Zheng, L.*, **Zhang, Z. H.**, Shi, L., & Armstrong, A. J. (2010). The allocation of berths and quay cranes by using a sub-gradient optimization technique. *Computers & Industrial Engineering*, 58 (1), 40-50.
DOI:10.1016/j.cie.2009.08.002

[35] Wang, S., Zheng, L.*, & **Zhang, Z. H.** (2010). Decomposition Algorithms for the Interval Scheduling Problem. *Asia-Pacific Journal of Operational Research*, 27 (04), 517-537.
DOI:10.1142/S0217595910002831

[36] Zheng, L.*, Yang, X. M., **Zhang, Z. H.**, & Liu, T. I. (2008). A web-based machining parameter selection system for life cycle cost reduction and product quality enhancement. *Computers in Industry*, 59 (2), 254-261.
DOI:10.1016/j.compind.2007.06.009

[37] Liu, S. G.*, Zheng, L., **Zhang, Z. H.**, Li, Z. Z., & Liu, D. C. (2007). Optimization of the number and positions of fixture locators in the peripheral milling of a low-rigidity workpiece. *The International Journal of Advanced Manufacturing Technology*, 33 (7-8), 668-676. DOI:10.1007/s00170-006-0507-5

[38] Liu, S. G., Zheng, L.*, **Zhang, Z. H.**, & Wen, D. H. (2006). Optimal fixture design in peripheral milling of thin-walled workpiece. *The International Journal of Advanced Manufacturing Technology*, 28 (7-8), 653-658.
DOI:10.1007/s00170-004-2425-8

[39] **Zhang, Z. H.**, Zheng, L.*, Zhang, L., Li, Z., Liu, D., & Zhang, B. (2005). A study on calibration of coefficients in end milling forces model. *The International Journal of Advanced Manufacturing Technology*, 25 (7-8), 652-662. DOI:10.1007/s00170-003-1903-8

[40] Li, Z. Z.*, **Zhang, Z. H.**, & Zheng, L. (2004). Feedrate optimization for variant milling process based on cutting force prediction. *The International Journal of Advanced Manufacturing Technology*, 24 (7-8), 541-552.
DOI:10.1007/s00170-003-1700-4

[41] **Zhang, Z. H.**, Zheng, L.*, Li, Z., Liu, D., Zhang, L., & Zhang, B. (2003). A cutting force model for a waved-edge end milling cutter. *The International Journal of Advanced Manufacturing Technology*, 21 (6), 403-410.
DOI:10.1007/s001700300047

[42] Zhang, L.*, Zheng, L., **Zhang, Z. H.**, Liu, Y., & Li, Z. Z. (2002). On cutting forces in peripheral milling of curved surfaces. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 216 (10), 1385-1398.
DOI:10.1243/095440502320405476

CONFERENCE
PUBLICATIONS

[43] Li, W. and **Zhang, Z. H.***. Balancing Trade-offs between Utilization and Work-in-Process Inventory Levels in Flow Shop Production. In: *CASE 2018–14th IEEE International Conference on Automation Science and Engineering*, Munich, Germany, August 20–24, 2018.

[44] Bai, D., Liang, J., Miao, Y., **Zhang, Z. H.***. Scheduling Two-stage Flexible Flowshop with Learning Effect. In: *CASE 2018–14th IEEE International Conference on Automation Science and Engineering*, Munich, Germany, August 20–24, 2018.

[45] H.-Y. Chiang, X. Tian, **Zhang Z. H.***. (2017, Sept). Nonlinear multi-objective programming approach to next-day electricity real-time pricing optimization. **(BEST PAPER AWARD)** The Second Global Conference on Theory and Applications of OR/OM for Sustainability (GCTAOS) 6-8 September, Beijing, China.

[46] Chen, X., **Zhang, Z. H.**, Huang, S. M., & Zheng, L.* (2010, October). Spatial-based decomposition approach for the crude scheduling problem of a refinery with multiple ports and long-distance pipelines. In Industrial Engineering and Engineering Management (IE&EM), 2010 IEEE 17Th International Conference on (pp. 808-812). IEEE.

[47] Zhang, C., **Zhang, Z. H.**, Zheng, L.*, & Cai, L. (2007, August). The Assignment of Customers in Multi-depot Vehicle Routing Problem with Fleet Size Constraint for Each Depot. In Automation and Logistics, 2007 IEEE International Conference on (pp. 1897-1901). IEEE.

[48] Wang, S., Zheng, L.*, & **Zhang Z. H.** (2007, August). Bi-ACO: A Tool for Solving Bi-Criteria Optimization. In Automation and Logistics, 2007 IEEE International Conference on (pp. 787-792). IEEE.

[49] Wang, S., Zheng, L.*, & **Zhang, Z. H.** (2007, December). Study on plan of track lines in marshalling station. In Industrial Engineering and Engineering Management, 2007 IEEE International Conference on (pp. 852-856). IEEE.

CONFERENCE TALKS

[50] Liang, Jingran, **Zhang, Z. H.***. A robust design for a gas allocation network planning under price and demand uncertainty. In: *2019 POMS Annual Conference*, Washington, DC, USA, May 3–6, 2019.

[51] Li, Qiaofeng, **Zhang, Z. H.***. Technology choice and network design for reverse supply chain under multiple uncertainties. In: *2019 POMS Annual Conference*, Washington, DC, USA, May 3–6, 2019.

[52] Liu, Maoqi, **Zhang, Z. H.***, Zheng, Li. Distributionally robust model of buyers' welfare -oriented product design problem under uncertainty. In: *2019 POMS Annual Conference*, Washington, DC, USA, May 3–6, 2019.

[53] Liu, Kanglin, Jiang, Ruiwei, **Zhang, Z. H.***. A reliable facility location problem with Wasserstein ambiguity set. In: *2019 POMS Annual Conference*, Washington, DC, USA, May 3–6, 2019.

[54] **Zhang, Z. H.**, Gemma Berenguer. Design of a subsidized reverse supply chain in the Chinese electronics industry. In: *2018 POMS Annual Conference*, Houston, Texas, USA, May 4–7, 2018.

[55] Li, Qiaofeng, **Zhang, Z. H.***. Reverse supply chain design problem in photovoltaic industry. In: *2018 POMS Annual Conference*, Houston, Texas, USA, May 4–7, 2018.

[56] Zhang, Yanzi, **Zhang, Z. H.***. A reliable location-inventory problem in a closed-loop supply chain. In: *2018 POMS Annual Conference*, Houston, Texas, USA, May 4–7, 2018.

[57] Liu, Kanglin, **Zhang, Z. H.***. Distributionally robust optimization of an emergency medical service station location problem. In: *2017 INFORMS Annual Meeting*, Houston, Texas, USA, Oct. 22-25, 2017.

[58] Zhang, Yanzi, **Zhang, Z. H.***. A Joint Pricing-Location-Inventory Problem Considering Market Cannibalization. In: *2017 POMS Annual Conference*, Seattle, WA, USA, May 5–8, 2017.

[59] **Zhang, Z. H.***, Gemma Berenguer. Testing, Location and Inventory Decisions in the Design of Closed-Loop Supply Chains. In: *2017 POMS Annual Conference*, Seattle, WA, USA, May 5–8, 2017.

BOOK CHAPTERS

[60] Liu Kanglin, Wang M., **Zhang Z. H.**. "An outer approximation algorithm for capacitated disassembly scheduling problem with parts commonality and random demand" in Book: Large Scale Optimization Applied to Supply Chain & Smart Manufacturing: Theory & Real-Life Applications. ISSN: 1931-6828. Springer, 2018

[61] Zheng Li, Huang Simin, **Zhang Z. H.**. Manufacturing Productivity in China. ISBN: 978-1-4665-9542-2. CRC Press, Taylor & Francis Group, 2015

[62] **Zhang Z. H.** (Translation). Scheduling theory, algorithm and application (second edition), Tsinghua University Press, 2007

[3] PI, "Study on the integrated closed-loop supply chain planning and operation considering cannibalization effect", NSFC (Grant No. 71371106), RMB 550k, Jan. 2014 to Dec. 2017.

[4] Co-PI, "Operations Management for High-Risk Supply Chain with Uncertain Manufacturing Processes", NSFC (Grant No. 71332005), RMB3000k Jan. 2014 to Dec. 2018.

Industrial Projects

[5] PI, 2018.12-2019.3, Whole Link Technology Co., Ltd., Optimal algorithm for outbound management in a smart warehouse, PI: Zhi-Hai Zhang, RMB80k.

[6] PI, 2017.6-2018.6, Tsinghua IE-Jiaozhou Logistics Research Center. Study on design methods of human-machine collaborative robot and development of prototype, PI: Zhi-Hai Zhang, RMB300k.

[7] PI, 2016.6-2016.9, SWAT, Design of Production System for SWAT, PI: Zhi-Hai Zhang, RMB300k/RMB150k

[8] PI, 2015.1-2015.12, China Academy of Space Technology, Design of Manufacturing and Training system, PI: Zhi-Hai Zhang, RMB460k

[9] PI, 2014.8-2015.3, Shanghai Railway Bureau, Lean Construction System for Railway Construction Projects, PI: Zhi-Hai Zhang, RMB50k

[10] Co-PI,2013.6-2014.2, Shanghai Railway Bureau, Lean Construction for High-Speed Train Station, PI: Prof. Wei Zhang, RMB222.4k

[11] PI, 2013.9-2013.12, Siemens China Corporate, Advanced Logistics Automation, PI: Zhi-Hai Zhang, RMB400k

[12] PI, 2013.7-2013.8, SINOPEC, Lean Operation for SINOPEC (QiLu), PI: Zhi-Hai Zhang, RMB90k

[13] PI, 2013.6-2013.9, China Aviation Planning and Design Institute (Group) Co., LTD., Enterprise Capability Performance and Production Model Selection, PI: Zhi-Hai Zhang, RMB100k

[14] PI, 2011.9-2012.9, Shanghai Baosight Software co., Ltd., Steel Supply Chain Visualization, PI: Zhi-Hai Zhang, RMB350k

[15] Co-PI: 2011.12-2012.8, SINOPEC, Production Scheduling Emergency Management System, PI: Prof. Simin Huang, RMB250k

[16] Co-PI: 2011.12-2012.8, SINOPEC, Optimal Selection of Cracking Material and Decision-Making Support System, PI: Prof. Simin Huang, RMB250k

[17] Co-PI: 2010.5-2011.3, SINOPEC, Research on Crude Oil Short-term Scheduling problem, PI: Prof. Simin Huang, RMB125k

[18] PI: 2011.2-2011.4, Siemens China Corporate Simulation of SMDT Assembly Line, PI: Zhi-Hai Zhang, RMB113.2k

[19] Co-PI: 2011.9-2012.3, Mitsubishi Group, Development of Proper Stock Calculation Tool of Parts Shared by Different Products with Consideration of Shipping Quantity Variation on Time, PI: Prof. Xiaobo Zhao, RMB230k

[20] PI: 2011.9-2012.3, Mitsubishi Group, Development of Parts Stock Calculation Tool with Robustness against Delivery Delay under Delivery Lead Time Variation, PI:Zhi-Hai Zhang, RMB230k

[21] Co-PI: 2011.8-2012.3, Mitsubishi Group, High-Speed Visualization of Gantt Chart, PI: Prof. Hai Jiang, RMB100k

[22] Co-PI: 2010.7-2011.3, Mitsubishi Group, Optimization of location of parts in Warehouse, PI: Prof. Xiaobo Zhao, RMB190k

[23] PI: 2006-2007, Tianjin Five Continents International Container Terminal, Operation Process Analysis and Decision-Making Support System for container terminal, PI: Zhi-Hai Zhang, RMB275k

[24] PI: 2003-2005, China Academy of Space Technology, Optimization of Milling process for thin-wall workpieces, PI: Zhi-Hai Zhang, RMB200k

[25] Co-PI: 2002-2005, Beijing-Tsinghua Industrial Development Institute, Research on Commercial Logistics of Beijing City, PI: Prof. Li Zheng, RMB142.5k

STUDENT
ADVISING

Ph.D.: (in total: 4)

- **Jingran Liang**
  Ph.D. student in IE, Tsinghua University. OM. 2017.9–.
- **Qiaofeng Li**
  Ph.D. student in IE, Tsinghua University. OM. 2016.9–.
- **Kanglin Liu**
  Ph.D. student in IE, Tsinghua University. OM. 2015.9–.
- **Yanzi Zhang**
  Ph.D. student in IE, Tsinghua University. OM. 2014.9–.

Master of Science: (in total: 17)

- **Meina Guan**
  Master student in IE, Tsinghua University. Title: Research on the Scheduling Problems of Human-Robot Collaboration Logistics Robots 2016.9–2018.7.
- **Xiaoyu Tian (Excellent graduate student)**
  Master student in IE, Tsinghua University. Title: Pricing and disassembly scheduling problem. 2015.9–2018.7.
- **Christoph Frey**
  Master students in IE (joint master program with RWTH-Aachen University), Tsinghua University. Title: A Comparative Study on a Maturity Models of "Industrie 4.0". 2016.9–2017.7
- **Seth Schmitz**
  Master students in IE (joint master program with RWTH-Aachen University), Tsinghua University. Title: A technology roadmap to implement Horizontal Integration as part of Industry 4.0 in SME production systems. 2016.9–2017.7
- **Shari Wlecke**
  Master students in IE (joint master program with RWTH-Aachen University), Tsinghua University. Title: Development of implementation requirements for "Industrie 4.0" regarding two demonstration factories in Germany and China. 2016.9–2017.7
- **Weijian Su**
  Master students in IE (joint master program with National Tsinghua University), Tsinghua University. Title: Research on Algorithm of AGV Scheduling And Routing Problem. 2016.2–2016.12
- **Hsinyu Chiang**
  Master student in IE (joint master program with National Tsinghua University), Tsinghua University. Title: Nonlinear Multi-objective Programming Approach to Next-day Electricity Real-time Pricing Optimization. 2014.9–2016.7.

- **Bo Wang**
  Master student in IE, Tsinghua University. Title: Analysis of the influence of resource price uncertainties on the design of a reverse logistics network for photovoltaic modules. 2013.9–2016.7.

Master of Engineering Management (MEM): (in total: 10)

Rao Xiong (2016), Zhengrong Cai (2014), Yayi Tan (2014), Tonglei Xing (2013), Yinchun Zhang (2013), Wentao Yang (2013), Qiqi Liu (2013), Haitao Chen (2012), Xingwu Huang (2012), Xuelong Li (2012)

Master of Engineering: (in total: 22)

Manyu Bao (2014), Jie Ye (2014), Wenyi Chen (2013), Yinhe Wang (2012), Xubin Qin (2011), Min Luo (2011), Lianhong Lv (2011), Jianfeng Deng (2011), Diandong Liu (2011), Yunhua Zhuang (2011), Huidong Dou (2010), Hanmou Xie (2010), Yusong Ren (2010), Yaofeng Lu (2008), Hongbing Zhu (2008), Le Wang (2008), Weixin Xie (2008), Chuanliang Hu (2006), Xianshu Wang (2006), Lichun Chen (2006), Qiuqun Dai (2003), Weihua Chen (2003)

Undergraduate Graduation Project Directed: (in total: 35, ~2018)

PROFESSIONAL SERVICE

Referee Service
- NSFC reviewer
- *Annals of Operations Research*
- *Applied Mathematical Modelling*
- *Asia-Pacific Journal of Operational Research*
- *Computers and Industrial Engineering*
- *Central European Journal of Operations Research*
- *European Journal of Operational Research*
- *Expert Systems with Applications*
- *European Journal of Industrial Engineering*
- *IISE Transactions*
- *International Journal of Production Economics*
- *International Journal of Production Research*
- *International Journal of Advanced Manufacturing Technology*
- *Journal of the Operational Research Society*
- *Journal of Cleaner Production*
- *Journal of Intelligent Manufacturing*
- *Socio-Economic Planning Sciences*
- *Transportation Research Part B: Methodological*
- *Transportation Research Part E: Logistics and Transportation Review*

Editorial Service
- *The Journal of Safety in Extreme Environments*, section editor (2018–present)
- *IISE Transactions on Healthcare Systems Engineering*, associate editor (2018-present)
- *Asia-Pacific Journal of Operational Research*, associate editor (2018–present)
- *Computers & Industrial Engineering*, area editor (2015–present)
- Special volume of *Journal of Cleaner Production: Towards a low carbon economy and a more equitable society: production, supply chain and operations management perspectives*, Co-editor (2016)

Conference Service
- Program Committee: *2nd Global Conference on Theory and Application of OR/OM for Sustainability (GCTAOS)*, Beijing, China, September 6–8, 2017.

- Chair of Session: "Closed-loop Supply Chain Design", *2017 POMS Annual Conference*, Seattle, WA, USA, May 5–8, 2017.

PROFESSIONAL MEMBERSHIPS	• *Production and Operations Management Society (POMS)*, Member, 2017–present • *Institute for Operations Research and the Management Sciences (INFORMS)*, Member, 2009–present • *Institute of Industrial & Systems Engineers (IISE)*, Member, 2015–present

SERVICE

Department of Industrial Engineering (DIE), Tsinghua University

• Duty manager of Tsinghua-IE Intelligent Manufacturing Research Center,	2017-present
• Be responsible for Tsinghua-McKinsey Digitial Capability Center (DCC),	2012-present
• Committee member for preparing ABET accreditation,	2016-2017
• Member of undergraduate internship advisory group, DIE,	2005-2017
• Member of Postgraduate Evaluation Committee, DIE,	2013-2017
• Member of Teaching Advisory Committee, DIE,	2013-2017
• Director of Institute of Engineering Systems, DIE,	2009-2017
• Undergraduate Class Advisor, DIE,	2009-2013
• Undergraduate Class Advisor, DIE,	2004-2008
• Director of Postgraduate Working Group, DIE,	2002-2003
• Undergraduate Class Advisor, DIE,	2001-2003

Beijing Municipal Science & Technology Commission

• Specialist,	2018-present

AWARDS

Tsinghua University, Beijing, China

- Experimental Technology Achievement Award, Xiaofang Wang, Ye Cheng, **Zhi-Hai Zhang**, **May, 2018**
  Title: *Digital-manufacturing experimental system*
- Experimental Technology Achievement Award, Xiaofang Wang, **Zhi-Hai Zhang**, Ye Cheng, **April, 2016**
  Title: *Research on teaching method of energy-efficient continuous production system*
- Scholarship provided by German Academic Exchange Service (DAAD), **Zhi-Hai Zhang**, **February, 2014**
  Title: *Scholarship authorization "Strategic Partnership RWTH Aachen University and Tsinghua University"*
- Student Laboratory Construction Contribution Award (First prize), Ye Cheng, **Zhi-Hai Zhang**, Xiaofang Wang, **December, 2012**
  Title: *Assemble line for teaching "Lean production"*
- Student Laboratory Construction Direction Award, Ye Cheng, **Zhi-Hai Zhang**, Xiaofang Wang, **December, 2012**
  Title: *Assemble line for teaching "Lean production"*
- Teaching achievement first prize, **2006**

MORE INFORMATION	More information and auxiliary documents can be found at http://www.ie.tsinghua.edu.cn/Show/index/cid/29/id/38.html.