

CURRICULUM VITAE

Dong Yang

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Experience

Dr. YANG Dong is now an assistant professor at Department of Logistics and Maritime Studies, Director of International Shipping and Transport Logistics Master Program, Deputy director of Shipping Research Centre, Hong Kong Polytechnic University, Council member of International Association of Maritime Economist (IAME), Associate Editor of Maritime Business Review (MBR).

Dr. Yang Dong obtained his PhD in the major of maritime logistics science from Kobe University, Japan in 2008 (GPA 5/5). After that, he has successively served as assistant professor at Southern University of Denmark (2008-2010), research fellow at Centre for Maritime Studies, National University of Singapore (2010-2012). Before he came to Hong Kong, he has worked as senior research fellow at China Waterborne Transport Research Institute, under Ministry of Transport China (2013-2016). Meanwhile, he was the head of project section at APEC Port Services Network, which is regional organization, aiming to promoting APEC ports cooperation.

In Dr. Yang's previous career, he has chaired or co-chaired funding from various sources, including United Nations, APEC, National Natural Science Foundation of China, Hong Kong Research Grant Committee, HK Environment and Conservation Fund, Shipping enterprises and so on. He has published more than 30 papers in over 10 international academic journals (SCI/SSCI) including *Transportation Research Part A, B and E, Transport Reviews, Journal of Transport Geography, Transportation Science, Transport Policy, Maritime Policy & Management, Accident Analysis & Prevention, Ocean Engineering, Journal of Navigation, Annals of Operations Research, Research in Transportation Business & Management* and so on. He acted as guest editor of several prestigious journals including *Transportation Research Part E, Transport Policy, Maritime Policy and Management* and *International Journal of Transport Economics*. Dr. Yang Dong is Programme Chair of the 27th International Association of Maritime Economist Conference, Hong Kong (IAME2020) and Co-chairs of the 10th International Forum on Shipping, Ports and Airports (IFSPA2019). He also has close collaboration with several international organizations and has been invited as keynote speaker by APEC, PECC and so on.

His current research interests fall in technology innovation in shipping, clean energy application in shipping, bulk shipping economic analysis, inland river shipping system development, Eurasian trade corridor, port competition/cooperation analysis, Arctic shipping and so on.

杨冬博士是香港理工大学物流航运系助理教授，航运研究中心副主任，航运和物流硕士课程总监。08年神户大学（日本）博士毕业（GPA 5/5），09-10年在南丹麦大学（丹麦）任助理教授，10-12年新加坡国立大学航运研究中心任研究员，12-16年交通运输部水运科学研究所副研究员（兼任国际组织亚太港口服务组织项目主任），曾多次代表交通运输部参加亚太经合组织交通工作组会议及双边海运会谈。16年开始任现职位。

杨冬博士是世界海运经济学协会(IAME)唯一中国籍理事会会员，第二十八届世界海运经济学会年会（IAME 2020）执行主席，第十届航运、港口和航空论坛（IFSPA 2019）联席主席。国际航运领域知名期刊《Maritime Business Review》（ESCI检索，Scopus收录）副主编及多个交通物流类权威期刊（如：《Transportation Research Part E》，《Transport Policy》《Maritime Policy & Management》，《International Journal of Transport Economics》等）的客座编辑（Guest Editor）。

近五年发表SCI/SSCI期刊论文超过30篇，其中第一作者或唯一通讯作者18篇，JCR Top (Q1)17篇，覆盖10个以上交通或海运类主流权威期刊，包括 *Transportation Research Part A, B and E, Transport Reviews, Journal of Transport Geography, Transportation Science, Transport Policy, Accident Analysis & Prevention, Ocean Engineering, Maritime Policy & Management, Journal of Navigation, Research in Transportation Business & Management* 等。

主持或联合主持多项国际和国家交通海运科研项目 and 政策起草，资助机构包括联合国亚太经济社会委员会（UNESCAP），亚太经济合作组织（APEC）、国家自然科学基金委、香港研究资助委员会（RGC）、香港环境署及多个港口和航运企业。最近的研究领域包括航运大数据、绿色航运、地区经济和港航系统协调发展、大宗货物国际航运经济性分析，内河运输体系演化和优化、新兴贸易通道分析等。

➤ **Journal paper publication:**

2020

- 1) Wu Lingxiao, **Yang Dong***, Wang Shuaian and Yuan Yun, Evacuating offshore working barges from a land reclamation site in storm emergencies, submitted to *Transportation Research Part E*, In Press, 2020
- 2) Notteboom Theo, **Yang Dong***, Xu Hua, Container shipping network development in inland rivers: A comparison between Yangtze River and Rhine River (Best Paper of Y-RIB2018), *Transportation Research Part A*, Volume 132, pp 587-605, 2020.
- 3) Chen Yang, **Yang Dong**, Lian Peng, Wan Zheng, Yang Yubin, Will Structure-Environment-Fit Result in Better Port Performance? An Empirical Test on the Validity of Matching Framework Theory, *Transport Policy*, Volume 86, pp 23-33, 2020.
- 4) Weng Jinxian, Shiguan Liao, **Yang Dong**, Methodology for Estimating Waterway Traffic Capacity at Shanghai Estuary of the Yangtze River, *Journal of Navigation*, Volume 73, Issue 1, pp 75-91, 2020
- 5) Weng Jinxian, Liao Shiguan, Wu Bing, **Yang Dong***, Exploring Effects of Ship Traffic Characteristics and Environmental Conditions on Ship Collision Frequency, Submitted to *Maritime Policy & Management*, In Press, 2020.

2019

- 6) Chen Yang, Chao Yiying, **Yang Dong***, Port Recentralization as a Balance of Interest, *Research in Transportation Business & Management*, In Press, 2019.
- 7) **Yang Dong**, Wu Lingxiao, Wang Shuaian, Jia Haiying, Li Kevin X. How big data enriches the shipping research -- Review of Automatic Identification System data application in maritime studies, *Transport Reviews*, Volume 39, Issue 6, pp 755-773, 2019.
- 8) Li Feng, **Yang Dong***, Wang Shuaian, Weng Jinxian, Ship Routing and Scheduling Problem for Steel Plants Cluster alongside Yangtze River. *Transportation Research Part E*, Volume 122, pp 198-210, 2019.
- 9) Weng Jinxian, **Yang Dong***, Chai Tian, Fu Shanshan. Investigation of occurrence likelihood of human errors in shipping operations, *Ocean Engineering*, Volume 182, Issue 15, pp 28-37, 2019
- 10) Yang Liqian, Chen Gang, Rytter Gorm Malý Niels, Zhao Jinlou and **Yang Dong**, A genetic algorithm-based grey-box model for ship fuel consumption prediction towards sustainable shipping. *Annals of Operations Research*, In Press, 2019
- 11) Chang Zheng, Jinxian Weng, Qi Zhuang, **Yang Dong***, Assess economic and environmental trade-off for inland port location, *International Journal of Shipping and Transport Logistics*, Vol. 11, issue 2-3, pp 243-261, 2019
- 12) Wang Shuaian, Yan Ran, Wu Lingxiao, **Yang Dong**, Optimal re-allocation of mooring areas for yachts, *Maritime Business Review*, Volume 4, No.1, 2019, pp 94-105.
- 13) Chang Zhen, **Yang Dong**, Wan Yulai, Han Tingting, Analysis on the Features of Chinese Dry Ports: Ownership, Customs Service, Rail Service and Regional Competition, *Transportation Policy*, Vol. 82, pp 107-116, 2019

2018

- 14) **Yang Dong**, Jiang Liping, Ng Adolf, One Belt one Road, but several routes: A case study of new emerging trade corridors connecting the Far East to Europe, *Transportation Research Part A*, Volume 117, pp 190-204, 2018.
- 15) Wu Lingxiao, Pan Kai, Wang Shuaian, **Yang Dong**. Bulk ship scheduling in industrial shipping with stochastic backhaul canvassing demand, *Transportation Research Part B*, Volume 117, pp 117-136, 2018.
- 16) Weng Jinxian, **Yang Dong***, Qian Ting, Huang Zhi, Combining Zero-inflated Negative Binomial Regression with MLRT Techniques: An Approach to Evaluating Shipping Accident Casualties, *Ocean Engineering*, Vol. 166, pp 135-144, 2018.
- 17) Weng Jinxian, **Yang Dong***, Gang Du, Generalized F distribution model with random parameters for estimating property damage cost in shipping traffic accidents, *Maritime Policy & Management*, Vol. 45, NO. 8, 963–978, 2018
- 18) Xu Hua, **Yang Dong***, Weng Jinxian. Economic Feasibility of an NSR/SCR-Combined Container Service on the Asia-Europe Lane: A New Approach Dynamically Considering Sea Ice Extent, *Maritime Policy & Management*, volume 45, issue 4, pp 514-523, 2018
- 19) Weng Jinxian, Li Guorong, Chai Tian and **Yang Dong**. Evaluation of Two-Ship Collision Severity using Ordered Probit Approaches, *The Journal of Navigation*, Volume 71, issue 4, pp 822-836, 2018
- 20) Wang Shuang, **Yang Dong**, Lu Jing, A connectivity reliability-cost approach for path selection in maritime transportation of China's crude oil imports, *Maritime Policy & Management*, Volume 45, issue 5, pp 567-584, 2018

2017

- 21) **Yang Dong**, Pan Kai, Wang Shuaian. On Service Network Improvement for Shipping Liners under the One Belt One

Road Initiative of China, *Transportation Research Part E*, Volume 117, pp 82-85, 2018.

22) Zhang Lingge, Luo Meifeng, **Yang Dong**, Li Kevin.X. Impacts of trade liberalization on Chinese economy with OBOR, *Maritime Policy & Management*, Volume 45, Issue 3, pp 301-318, 2017

23) Guo Liquan, **Yang Dong**, Yang Zhongzhen. Port integration method in Multi-Port Regions (MPRs) based on the maximal social welfare of the external transport system, *Transportation Research Part A*, Volume 110, pp 243-257, 2017.

24) **Yang Dong**, Wang Yujie, Xu Hua, Zhang Zhehui. Path to a multilayered transshipment port system: How the Yangtze River bulk port system has evolved, *Journal of transport geography*, Volume 64, pp 44-64, 2017

25) **Yang Dong***, Wang Shuaian. Analysis of the Development Potential of Bulk Shipping Network on the Yangtze River, *Maritime Policy & Management*, Volume 44, Issue 4, pp 512-523, 2017

2016

26) Zheng Jianfeng, **Yang Dong***, Hub-and-spoke network design for container shipping along the Yangtze River, *Journal of transport geography*, Volume 55, pp 51-57, 2016

27) Song Liying, **Yang Dong**, Chin TH Anthony, Zhang, Guangzhi, He, Zhengbing, Guan, Wei & Baohua, Mao. A game-theoretical approach for modeling competitions in a maritime supply chain. *Maritime Policy & Management*, Volume 43, Issue 8, pp 976-991, 2016.

28) Jose Tongzon, **Yang Dong**, The rise of Chinese ports and its impact on ports in East Asia, *Maritime Economics & Logistics*, Volume 18, Issue 1, pp 19-40, 2016.

29) **Yang Dong***, Wen Jinxian, Hu Jia, Coal containerization: Will it be an alternative mode of transport between north and south China in the future? *Maritime Business Review*, Volume 1, Issue 1, pp 76-87, 2016.

2015

30) Zheng Jianfeng, Gao Ziyou, **Yang Dong** and Sun Zhou. Network design and capacity exchange for liner alliances with fixed and variable container demands. *Transportation Science*, 49(4), pp.886-899, 2015

31) Wen Jinxian, **Yang Dong**, Investigation of Shipping Accident Injury Severity and Mortality, *Accident Analysis & Prevention Vol.76*, 92-101, 2015

2014

32) **Yang Dong***, Anthony TH Chin, Chen Shun, Impact of Political and Economic Events, Port Reforms on the Evolution of Maritime Traffic in Chinese Ports, *Maritime Policy & Management*. Volume 41, Issue 4, 346-366, 2014

33) **Yang Dong**, Ong, G. P, Anthony TH Chin, An exploratory study on the effect of trade data aggregation on international freight mode choice, *Maritime Policy & Management*. Volume 41, Issue 3, 212-223, 2014 (Best Paper of IAME2012)

Before 2014

34) **Yang Dong***, Liu Miaoja, Shi Xiaoning, Verifying the Liner Shipping Alliance's Stability by Applying Core Theory, *Research in Transportation Economics*, Vol.32, 15-24, 2011

35) **Yang Dong**, Odani Michiyasu, A Conceptual Application of Game Theory into the Cooperative Freight Transportation System in Urban Area, *Journal of Japan Logistics Society*. Vol.17, 121-128, 2008

36) **Yang Dong**, Odani Michiyasu, An analysis on city freight cooperative transportation system using game theory, *Journal of the Eastern Asia Society for Transport Studies*, Vol.7, 989-1001, 2007

➤ Papers under review:

1) Chen Yang, **Yang Dong***, Why users postpone adopting innovation during the early stage — A case study on the internet-based platformization in Chinese container trucking industry. Submitted to *Transportation Research part A*, under second revision.

2) Li feng, **Yang Dong***, Wang Shuaian, Jiao wen, A Branch-and-Price Algorithm for Bunkering Tankers Dispatching Problem in Maritime Transportation, submitted to *Transportation Research Part B* on Nov, 2019

3) **Yang Dong**, Linge Zhang, Meifeng Luo, Li Feng, Does shipping affects the international iron ore trade? -- An equilibrium analysis. submitted to *Transportation Research Part E* on Feb, 2020

4) Liu Zihua, **Yang Dong***, Hong Kong Container Port Competition: From Internal to External, submitted to *Journal of Shipping and Trade* on July of 2019

5) Xu Hua, **Yang Dong***, Spatial Oscillation of Industrial Location in a Sequential Industrial Chain, submitted to *Regional Science & Urban Economics* on September.

➤ Working paper:

1) Xu Hua, **Yang Dong***, Economic Feasibility of LNG-powered Container Fleet Sailing on the Northern Sea Route.

Working paper

- 2) **Yang Dong**, Wu Lingxiao, Wang Shuaian, Can we trust the data of destination port in AIS? Working paper
- 3) **Yang Dong**, Wan Yulai, Han Tingting and Bao Erjia, Comparison of cost functions in shipping and aviation transportation. Working paper
- 4) **Yang Dong**, Theo Notteboom, Zhou Xin, Entry strategies in inland container terminal operations along the Yangtze and Rhine rivers. Working paper

➤ **Book (Chapter) publication:**

- 1) Maritime Economics and Business: Asian perspectives, Chapter editor, 2018, Taylor & Francis.
- 2) Encyclopedia of Transportation, Freight Costs: Air and Sea, Chapter editor, 2019, Elsevier

Selected Projects Involvement

起止时间 Time	项目性质和来源 Nature and Source of the Project	经费总额 Total Amount of Budget	参与人数 Number of Participants	具体职位和任务 Position and Responsibilities
2020-2023	<u>National Natural Science Foundation of China (NSFC) 2019</u> : Modeling and analysis of the spatial-temporal heterogeneity in tramp ship transportation based on real time position data of individual ship	RMB 480,000	7	项目主持人领导整个项目 (Principal Investigator)
2017-2020	<u>National Natural Science Foundation of China (NSFC) / Research Grants Council (RGC) Joint Research Scheme</u> : Dynamic Revenue Management and Fleet Management for Stochastic Container Leasing System	HKD 1,383,480	3	项目主持人领导整个项目 (Principal Investigator)
2016-2020	<u>Hong Kong Polytechnic University</u> : Evaluation of the Emerging New Container Transport Routes between China and Europe	HKD 200,000	1	项目主持人领导整个项目 (Principal Investigator)
2017-2019	<u>Hong Kong Polytechnic University</u> : Analysis on the co-evolution between the containerized trade flows from China and the relocation of manufacturing to the developed countries	HKD 105,000	1	项目主持人领导整个项目 (Principal Investigator)
2019-2021	<u>Hong Kong Polytechnic University</u> : A Mixed Complementarity-based Equilibrium Model of International Iron Ore Markets	HKD 48,734	1	项目主持人领导整个项目 (Principal Investigator)
2016-2019	<u>Hong Kong Polytechnic University</u> : Study on the Mechanism of Interaction between World Container Port System and Manufacturing Distribution Pattern under the New Economic Geography Framework	HKD 155,000	1	项目主持人领导整个项目 (Principal Investigator)
2016-2018	<u>Hong Kong Polytechnic University</u> : The Iron Ore Transshipment System in Yangtze River: Evolution, Ports Competition and Development	HKD 65,000	1	项目主持人领导整个项目 (Principal Investigator)
2016-2017	<u>UN ESCAP</u> : Logistics Integration for a more Sustainable Exploitation of Natural Resources in Latin America and the Caribbean, Economic and Social Commission for Asia and the Pacific	USD 24,000	1	项目主持人领导整个项目 (Principal Investigator)
2018-2020	<u>HK Environment and Conservation Fund</u> : Optimal deployment of drones for monitoring air pollution from ships in the Pearl River Delta domestic emission control area.	HKD 484,000	3	联合主持 (Co-PI)

2018-2020	<u>National Natural Science Foundation of China (NSFC)</u> : Operations Optimization for Liner Shipping Service Network Considering Vessels' Exhaust Gas Emission Control	RMB190,000	6	联合主持 (Co-PI)
2013-2014	<u>APEC Funded Project</u> : Maximizing Energy Efficiency of Supply Chain Connectivity through Improving Rail-waterway Intermodal Container Transport (RWICT) in APEC Economies	USD 50,050	5	联合主持 (Co-PI)
2013-2014	<u>APEC Funded Project</u> : Study on the Reduction of Energy Consumption and Prevention of Harmful Exhaust Emissions from International Shipping in the APEC Region	USD 60,000	5	联合主持 (Co-PI)

Teaching Courses

- 1) MSc: Transport Logistics in China, The Hong Kong Polytechnic University, 2017-2020
- 2) BAc: Liner shipping management, The Hong Kong Polytechnic University, 2017-2020
- 3) BAc: Economics of International Transport Logistics, The Hong Kong Polytechnic University, 2017-2020
- 4) BAc: Global Management and Manufacturing, University of Southern Denmark, 2010
- 5) MSc: Maritime transportation, CMM11, 6 ECTS, University Centre of Westfjords, Iceland, 2010
- 6) MSc: Maritime transportation, CMM11, 6 ECTS, University Centre of Westfjords, Iceland, 2010

Average SFQ: 4.4/5.0

Award

PolyU Faculty of Business School Fellow Award 2019, Hong Kong Polytechnic University

Best paper prize: "HANJIN PRIZE" (3,000 US dollar), International Association of Maritime Economists, 2012 Annual Conference in Taipei (IAME 2012)

Best paper prize, The 1st Conference of the Yangtze-River Research and Innovative Belt, 2018 (Y-RIB 2018)

Second prize of Liaoning Province Natural Science Scholastic Attainment

Outstanding Employee of 2014, China Waterborne Transport Research Institute, Ministry of Transport, China

Outstanding Graduate title of Bachelor degree (top 5%)

Services

Editorial experience

Associate Editor of *Maritime Business Review (MBR)*

Editorial board member of *Journal of Shipping and Trade*

Guest editor (leading) of *Transportation Research Part E*

Guest editor (leading) of *Transport Policy*

Guest editor of *Maritime Policy & Management*

Guest editor of *International Journal of Transport Economics*

Professional association and organization

Council Member of International Associate of Maritime Economist

Co-chair of the 10th International Forum on Shipping, Ports and Airports (IFSPA 2019)

Programme Chair (Co-chair) of the 28th International Association of Maritime Economist Conference, Hong Kong (IAME 2020)

Member of CY Tung international Center for Maritime Studies Management Committee

University/Department Service

Director of International Shipping and Transport Logistics Master programme, PolyU
Deputy Director of Shipping Research Centre (SRC)
WIE Coordinator (ISTL)
Member of Faculty Learning and Teaching Committee (FLTC)
Member of Departmental Postgraduate Programme Committee (DPPC)
Member of Departmental Learning and Teaching Committee (DLTC)
Department Undergraduate Student Academic Advisor, BBA-ISTL (2016-now)
Ad hoc paper referee of more than 30 journals

Postgraduate Research Students Supervised

Lingge, Zhang. PhD, chief supervisor, in progress since 2016
Tingting, Han. PhD, co-supervisor, in progress since 2019

Invited Talk

- 1) Yang Dong (2019), “Improving Bulk Shipping Efficiency with Individual Ship Position Data”, *International Seminar on the Usage of AIS and Vessel Movement Data for Logistics Research and Industry*, December 18, Tokyo University, 2019
- 2) Yang Dong (2019), “Big data application and development in Shipping”, *China Supply Chain Summit Forum*, 18-19 May, Fuzhou, China, 2019
- 3) Yang Dong (2018), “International Green Port Experience Exchange”, *Annual workshop of APEC Port Service Network*, 17-18 April, Beijing, China, 2018
- 4) Yang Dong (2018), “Path to Develop a Transport Project in China: A Case Study of New Emerging Trade Corridors Connecting Far East to Europe”, *The Tenth International Conference on Traffic & Transportation Studies (ICTTS'2018)*, keynote speech, 28-29 July, Beijing, China, 2018
- 5) Yang Dong (2017), “Port Governance, Commercialization and Investment in China”, *International Conference of Port Economy and Shipping Logistics*, keynote speech, June 22-24, Qingdao, China
- 6) Yang Dong (2016). “Cruise and tourism industry outlook for China”, *PECC (Pacific Economic Cooperation Council) seminar: Coping with Uncertainties in Ports and Shipping*, keynote speech, December 5-7, 2016 in Auckland, New Zealand
- 7) Yang Dong (2016). “The development of Green Port in APEC and Green Port Award System”, *PECC (Pacific Economic Cooperation Council) seminar: Sustainability and Beautification of Ports*, April 4-6, 2016 in Busan, Korea
- 8) Yang Dong (2015). Invited lecturer. *3rd APEC Training Course on “Common Principles to Shipping Policy”*, December 16th-18th, Bangkok, Thailand
- 9) Yang Dong (2014). “Study on the reduction of energy consumption and prevention of harmful exhaust emissions from international shipping in the APEC region”. *APEC Workshop on “Environmental Performance and Energy Efficiency of Supply Chains-Carbon Footprint Project: Study to develop a Methodology for Ocean-Going Vessels”*, keynote speech, May 20th, 2014 in Kunming, China
- 10) Yang Dong (2013): “The development of Chinese ports”. *APEC Workshop on Supply-chain Benefits of Electronic Information Exchange between Seaports in Selected APEC Economies*, keynote speech, Shanghai, from 25 February