

# CURRICULUM VITAE

***Dong Yang***

**Nationality:** China, **Date of Birth:** 2nd of February 1980

**Tel:** +852 92702940 **Email:** [im.yangdong@gmail.com](mailto:im.yangdong@gmail.com)

**Language:** Chinese (Native); English (Fluent); Japanese (conversational)



## ***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, 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 an 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 a 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 been involved in a lot of projects regarding maritime relevant studies funded by various stakeholders, including United Nations, APEC, Ministry of Transport China, National Natural Science Foundation of China, Environmental Protection Department of Hong Kong, Shipping enterprises and so on. He also has published more than 20 papers in high level international academic journals (SCI/SSCI) like *Journal of Transport Geography*, *Transportation Science*, *Transportation Research Part A*, *Part B*, *Part E*, *Transport Policy*, *Maritime Policy & Management*, *Accident Analysis & Prevention*, *Ocean Engineering*, *Journal of Navigation* and so on. He is guest editor of several journals including *Transport Policy*, *Maritime Business Review*. He has close collaboration with several international organizations and has been invited to be keynote speaker and lecturer by APEC, PECC and so on.

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

楊冬博士目前是香港理工大學助理教授，國際航運和物流碩士課程總監，航運研究中心副主任，*Maritime Business Review* (MBR) 副主編。楊冬博士在日本神戶大學取得博士學位之後，先後南丹麥大學(助理教授 2008-2010)，新加坡國立大學(研究員 2010-2012)，交通運輸部水運科學研究院(資深研究員 2012-2015)，亞太港口合作組織(項目總監 2013-2016)，香港理工大學(2016-now)等航運領域高校，科研機構，國際組織有過工作經歷並且和業界合作緊密。楊冬博士發表 SCI/SSCI 論文二十余篇，其論文曾獲得 2012 年世界海運經濟學會年會最佳論文獎(獎金 3000 美元)和第一屆長江經濟帶&一路一帶會議最佳論文獎，他還擔任多個 SCI/SSCI 的客座編輯和審稿人。楊冬博士科研理論結合實際，先後主持及參加過多個科研項目，資助機構包括聯合國，亞太經濟合作組織(APEC)，交通運輸部，國家自然科學基金，香港環境署基金，港口和航運公司等；他曾多次受邀在國際論壇、企業和高校(亞太經合組織，太平洋經濟合作組織，Nordea，上海交通大學，山東大學，大連海事大學，北京交通大學，上海海事大學，寧波大學等等)發表主旨演講，在北京工作期間多次代表交通部出席亞太經合組織交通運輸工作組會議及雙邊海運會談，擔任過亞太經濟合作組織交通政策講師。楊冬博士最近的研究興趣是大數據在航運中的應用，船舶清潔燃料經濟性分析，幹散貨運輸經濟性分析，內河運輸體系演化和優化，港口競爭合作分析，亞歐鐵路，北冰洋航運等等。歡迎各位有誌來我校讀博士的同學聯系。

## ***Publication***

---

### **➤ Journal paper publication:**

#### **2019**

1) Li Feng, **Yang Dong\***, Wang Shuaian. Ship Routing and Scheduling Problem for Steel Plants Cluster alongside Yangtze River. *Transportation Research Part E*, Volume 122, pp 198-210, 2019.

## **2018**

- 2) **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.
- 3) 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.
- 4) 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*, Volume 166, pp 135-144, 2018.
- 5) 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*, In Press, 2018
- 6) 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*, In Press, 2018
- 7) Chang Zheng, Jinxian Weng, Qi Zhuang, **Yang Dong\***, A bi-objective inland port location optimization problem of inland port location considering shippers' utility and carbon emissions, *International Journal of Shipping and Transport Logistics*, In Press, 2018
- 8) 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
- 9) 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
- 10) 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**

- 11) **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.
- 12) 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
- 13) 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.
- 14) **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
- 15) **Yang Dong\***, Wang Shuaian., Analysis of the Development Potential of Bulk Shipping Network on the Yangtze River, *Maritime Management & Policy*, Volume 44, Issue 4, pp 512-523, 2017

## **2016**

- 16) 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
- 17) 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.
- 18) 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.
- 19) **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**

- 20) 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
- 21) Wen Jinxian, **Yang Dong**, Investigation of Shipping Accident Injury Severity and Mortality, *Accident Analysis & Prevention Vol.76*, 92-101, 2015

## **2014**

- 22) **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

23) **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**

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

25) **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

26) **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) **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, submitted to *Transport Reviews* on April, 2018

2) Weng Jinxian, Shiguan Liao, **Yang Dong**, Methodology for Estimating Waterway Traffic Capacity at Shanghai Estuary of the Yangtze River, submitted to *Journal of Navigation* on July, 2018

3) Xu Hua, **Yang Dong\***, Spatial Oscillation of Industrial Location in a Sequential Industrial Chain, submitted to *Regional Science & Urban Economics* on September, 2018.

4) Wu Lingxiao, **Yang Dong\***, Wang Shuaian and Yuan Yun, Evacuating offshore working barges from a land reclamation site in storm emergencies, submitted to *European Journal of Operation Research* (EJOR) on October, 2018

5) Weng Jinxian, **Yang Dong\***, Exploring Effects of Influencing Factors on Human Errors in Shipping Operations, submitted to *Ocean Engineering* on November, 2018.

6) **Yang Dong**, Notteboom Theo, Xu Hua, Container shipping network development in inland rivers: A comparison between Yangtze River and Rhine River (Best Paper of Y-RIB2018), submitted to *Transportation Research Part A* on January, 2019

#### ➤ **Working paper:**

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

2) **Yang Dong**, Linge Zhang, Meifeng Luo, A computable equilibrium model of international iron ore trade, working paper

3) Chen Yang, **Yang Dong\***, Port Recentralization as a Balance of Interest: Understanding 'Imperfect Implementation in Chinese Port Industry Recentralization (2015-2018), working paper

4) **Yang Dong**, Wu Lingxiao, Wang Shuaian, Can we trust the data of destination port in AIS? working paper

5) Integrating Bunker Hedging and Consumption Optimization under Maritime Emission Regulations, working paper

#### ➤ **Book (Chapter) publication:**

1) Maritime Economics and Business: Asian perspectives, chapter editor, 2018, Taylor & Francis.

#### **Projects Involvement**

---

1) Optimal deployment of drones for monitoring air pollution from ships in the Pearl River Delta domestic emission control area. Environment and Conservation Fund, Co-Investigator, HKD 484,000, 2018-2020

2) Analysis on the co-evolution between the containerized trade flows from China and the relocation of manufacturing to the developed countries. Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University, Principal Investigator, HKD 105,000, 10.2017-12.2019

3) Operations optimization for liner shipping service network considering vessels' exhaust gas emission control. Young Scientists Fund of the National Natural Science Foundation of China, CO-I, 190,000 RMB, 2018-2020.

4) 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, United Nations project, Index No. 10021263, Consultant service, contract no. 2500055396, 2016-2017

- 5) The Iron Ore Transshipment System in the Yangtze River: Evolution, Ports Competition and Development, Departmental General Research Funds, Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University, Principal Investigator, HKD 65,000, 2016-2017
- 6) Study on the Mechanism of Interaction between World Container Port System and Manufacturing Distribution Pattern under the New Economic Geography Framework, Central Research Grant PolyU, Principal Investigator, HKD 155,000, 2016-2018
- 7) Multi-Criteria Decision Analysis in Evaluation of the Emerging New Container Transport Routes between China and Europe, Funded by the Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University, Principal Investigator, HKD 200,000, 2016-2018
- 8) Maximizing Energy Efficiency of Supply Chain Connectivity through Improving Rail-waterway Intermodal Container Transport (RWICT) in APEC Economies, APEC funded project (S TPT 08/2012 A), USD \$60,000, Principal Investigator, USD \$50,050, 2013-2014
- 9) Study on the Reduction of Energy Consumption and Prevention of Harmful Exhaust Emissions from International Shipping in the APEC Region, APEC funded project (S TPT 11/2012 A), 2013-2014
- 10) APEC Green Port Award System (GPAS), Self-funded (APEC Port Service Network), Principal Investigator, 2013-2015
- 11) Study on the Dry Port layout and operation mode in Hubei Province, funded by Department of Transport, Hubei Province, Principal Investigator, 2014-2015
- 12) An exploratory study on the electricity-coal containerization, funded by Department of Transport, Hebei Province, Principal Investigator, 2014-2015
- 13) Study on developing Ningbo Port to a Modern Port Logistics Centre in China, funded by Ningbo Port Corporation, 2014-2015
- 14) Industry development planning of Qushan Free Trade Zones in Zhoushan Port, funded by Zhoushan Port Corporation, 2014-2015
- 15) Study on constructing Zhoushan Port to a modern service-oriented port, funded by Zhoushan Port Corporation, 2013-2014
- 16) Study on the feasibility of lump coal containerization in China, funded by Department of Transport, Hubei Province, Principal Investigator, 2013-2014
- 17) Globe Trade Flow Forecasting, Research proposal (Cooperate with APL and IE Singapore), 2010-2012
- 18) Effects on Sea Transport Cost due to an International Fund for Greenhouse Gas Emissions From Ships, Danish Maritime Authority, 2008-2009
- 19) Applications of Game Theory in Cooperative Freight Transportation System, Grants-in-Aid Research of Ministry of Education Culture, Sports, Science and Technology, Japan, 2006-2008

### ***Teaching Courses***

---

- 1) MSc: Transport Logistics in China, The Hong Kong Polytechnic University, 2017-2018
- 2) BA: Liner shipping management, The Hong Kong Polytechnic University, 2017-2019
- 3) BA: Economics of International Logistics, The Hong Kong Polytechnic University, 2017-2019
- 4) BA: 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: 4.6/5.0

### ***Award***

---

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 1<sup>st</sup> Conference of the Yangtze-River Research and Innovative Belt, 2018 (Y-RIB 2018)

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

Outstanding Graduate title of Bachelor degree (top 5%)

## **Services**

---

### **Guest Editor**

Associate Editor of Maritime Business Review (MBR)

IFSPA special issue of *Transport Policy*

WTC special issue of *Maritime Business Review*

Special issue of *International Journal of Distributed Sensor Networks*

### **Committee Member**

Co-chairs of the 10th International Forum on Shipping, Ports and Airports

Co-chair of IAME Conference, Hong Kong, 2020

Member of International Scientific Steering Committee (ISSC) of IAME conference

Member of Committee of International Forum on Shipping, Ports and Airports

### **University/Department Service**

Director of ISTL master programme

Deputy Director of Shipping Research Centre (SRC)

Member of CY Tung international Center for Maritime Studies Management Committee

WIE Coordinator (ISTL)

Member of Departmental Postgraduate Programme Committee (DPPC)

Departmental Learning and Teaching Committee (DLTC)

Department Undergraduate Student Academic Advisor, BBA-ISTL (2016-now)

### **Ad hoc paper referee**

Maritime Policy and Management; Maritime Economics and Logistics; Transportation Research Part A; Transportation Research Part E; Transportation Research Part D; Journal of Transport Geography; Transport Policy; Transport Policy; Transportation Research Record; Annals of Operations Research; International Journal of Shipping and Transport Logistics, Flexible Services and Manufacturing; European Journal of International Management; Journal of Industrial and Management Optimization; Annals of Financial Economics; International Journal of Shipping and Transport Logistics (IJSTL); Journal of Logistics Management; European J. of International Management; Maritime Business; International Conference of International Association of Maritime Economists; International Conference on Transportation and Logistic; International Conference on Transportation Logistics; Book proposals of Routledge

### **Postgraduate Research Students Supervised**

---

Lingge, Zhang. PhD, chief supervisor, in progress since 2016

### **Invited Talk**

---

- 1) 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
- 2) 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
- 3) Yang Dong (2015). Invited lecturer. *3<sup>rd</sup> APEC Training Course on "Common Principles to Shipping Policy"*, December 16<sup>th</sup>-18<sup>th</sup>, Bangkok, Thailand
- 4) 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
- 5) Yang Dong (2016). "Cruise and tourism industry outlook for China", *PECC (Pacific Economic Cooperation Council) seminar: Coping with Uncertainties in Ports and Shipping*, keynote0 speech, December 5-7, 2016 in Auckland, New

Zealand

- 6) 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
- 7) Yang Dong (2018), “International Green Port Experience Exchange”, *Annual workshop of APEC Port Service Network*, keynote speech, 17-18 April, Beijing, China, 2018
- 8) 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