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Qualifications

Master of Business Administration, Manchester Business School

Bachelor of Engineering, The University of Hong Kong

Doctor of Philosophy, The University of Hong Kong

1 Jul 2015 → ... Certified Membership of The Institute of Certified Management Accounting, Certified Membership of The Institute of Certified Management Accounting

17 Oct 2014 → ... Member of Institute of Public Accountants, Member of Institute of Public Accountants

16 Oct 2014 → ... Chartered Fellow of The Chartered Institute of Logistics and Transport, Chartered Fellow of The Chartered Institute of Logistics and Transport

23 Nov 2012 → ... Fellow Member of Hong Kong Sea Transport and Logistics Association, Fellow Member of Hong Kong Sea Transport and Logistics Association

19 Sept 2012 → ... Member of Institute of Chartered Shipbrokers, Member of Institute of Chartered Shipbrokers

3 Jul 2012 → ... Chartered Member, Chartered Member

4 May 2012 → ... Member of Hong Kong Institution of Engineers, Member of Hong Kong Institution of Engineers

15 Mar 2012 → ... Professional Member of Hong Kong Logistics Association, Professional Member of Hong Kong Logistics Association

1 Mar 2006 → ... Member of Hong Kong Institute of Marketing, Member of Hong Kong Institute of Marketing

13 Jun 2005 → ... Member of the Chartered Institute of Marketing, Member of the Chartered Institute of Marketing

6 Dec 2002 → ... Chartered Engineer, Chartered Engineer

25 Oct 2002 → ... Member of Institution of Engineering and Technology, Member of Institution of Engineering and Technology

9 Oct 2002 → ... Member of Institution of Mechanical Engineers, Member of Institution of Mechanical Engineers

Employment

Associate Professor

Associate Professor

Department of Logistics and Maritime Studies

The Hong Kong Polytechnic University

1 Jul 2014 → present

Research outputs

Real-time graph-based traffic complexity evaluation for intelligent maritime supervision using multi-source data fusion
Zhao, C., Lu, Y., Yang, D. & Leung Yip, T., Sept 2026, In: Reliability Engineering and System Safety. 273, 112380.

Selection of sustainable energy for maritime transportation with behavioural decision analysis and cooperative game
Zhao, C., Yip, T. L., Yang, J. B. & Lu, Y., Aug 2026, In: Transport Policy. 184, 104192.

Wearable multimodal sensing with deep online learning for real-time onboard crew behavior prediction
Man, J., Yang, C., Chen, D., Yip, T. L., Wu, B. & Yan, X., 15 Jun 2026, In: Engineering Applications of Artificial Intelligence. 174, 114582.

Internationalization and Financing Decisions of Chinese Enterprises: Evidence from Hong Kong Listings

Lin, P. & Yip, T. L., Jun 2026, In: *Econometrics*. 14, 2, p. 23 14020023.

Enhancing ship collision risk assessment by integrating virtual ship-based shared nearest neighbor clustering and game-theoretic modeling

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Multi-Ship Collision Avoidance Decision-Making Considering Dynamic Risk and Interaction Strategies

Zhao, C. C., Yip, T. L., Lu, Y. X., Li, Y. T. & Wu, B., Feb 2026, In: *China Ocean Engineering*. 40, 1, p. 106-119 14 p.

An innovative approach to predicting vessel traffic flow and visualizing traffic density in multiple-bridge inland waterways

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Gao, J., Zhong, H., Yip, T. L. & Zhang, J., Dec 2025, In: *Transportation Research Record*. 2679, 12, p. 877-889 13 p.

A Multi-Objective Framework for Green Energy Selection and Navigation in Maritime Transportation

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Modelling of ship overtaking risk in restricted waters considering ship-ship interaction

Wu, B., Liu, O., Yip, T. L. & Guedes Soares, C., May 2025, In: *Applied Ocean Research*. 158, 104573.

A study on the forecast of fine dust emissions in the future according to the introduction of eco-friendly ships

Lee, J., Chen, J., Yip, T. L. & Lee, H., Mar 2025, In: *Marine Pollution Bulletin*. 212, 117507.

Cooperative Game Approach to Vessel Merging Decisions in Traffic Separation Scheme Waters

Zhang, L., Yip, T. L., Li, Z. & Chen, D., 2025, *8th International Conference on Transportation Information and Safety: Transportation + Artificial Intelligence and Green Energy: Making a Sustainable World, ICTIS 2025*. Institute of Electrical and Electronics Engineers Inc., p. 1700-1707 8 p. (8th International Conference on Transportation Information and Safety: Transportation + Artificial Intelligence and Green Energy: Making a Sustainable World, ICTIS 2025).

Editorial: special Issue on 'Digitalisation and artificial intelligence in maritime transport: operations, management, and policy'

Yuen, K. F., Macias, J. E., Li, D., Yan, R. & Yip, T. L., 2025, In: *Maritime Policy and Management*. 52, 8, p. 1157-1161 5 p.

Hierarchical Multi-Plan Decision-making in Merging Mixed Waterways Based on Stackelberg Game

Li, Z., Yip, T. L., Lee, J. W. & Zhang, F., 2025, *8th International Conference on Transportation Information and Safety: Transportation + Artificial Intelligence and Green Energy: Making a Sustainable World, ICTIS 2025*. Institute of Electrical and Electronics Engineers Inc., p. 1692-1699 8 p. (8th International Conference on Transportation Information and Safety: Transportation + Artificial Intelligence and Green Energy: Making a Sustainable World, ICTIS 2025).

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Lau, Y. Y., KY Ng, A. & Yip, T. L., 9 Sept 2024, In: Maritime Business Review. 9, 3, p. 202-203 2 p.

Fuzzy Logic-Based Decision-Making Method for Ultra-Large Ship Berthing Using Pilotage Data

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Li, Z., Wang, Z., Chen, D., Yip, T. L. & Teixeira, A. P., May 2024, In: Defence Technology. 35, p. 259-274 16 p.

考虑闸室面积利用率的三峡船闸调度方法

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Gao, Y., Zhang, Y., Wang, K. Y. & Yip, T. L., Sept 2023, In: Sustainability (Switzerland). 15, 17, 12725.

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Park, Y. A., Yip, T. L., Hu, S. R. & Park, H. G., Sept 2023, In: Asian Journal of Shipping and Logistics. 39, 3, p. 39-47 9 p.

Mapping the landscape of ship berthing research: A bibliometric analysis and literature review over two decades

Han, D., Chen, H., Song, G., Yip, T. L. & Wu, B., 1 Aug 2023, In: Ocean and Coastal Management. 242, 106730.

Ship Lock Scheduling Method of Three Gorges Based on Improved Ant Colony and Surplus Rectangle Fill Algorithm

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Yip, T. L., Lau, Y. Y. & Kanrak, M., Jan 2023, In: Frontiers in Marine Science. 10, 1179624.

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Yip, T. L., Dulebenets, M. A., Tang, Y. M. & Kawasaki, T., 1 Apr 2022, In: International Journal of Environmental Research and Public Health. 19, 8, 4499.

Review of techniques and challenges of human and organizational factors analysis in maritime transportation

Wu, B., Yip, T. L., Yan, X. & Guedes Soares, C., Mar 2022, In: Reliability Engineering and System Safety. 219, 108249.

China's Belt and Road Initiative: Quantifying the causal relationship between maritime connectivity and global trade

Yip, T. L., Chan, E. M. H. & Ho, D. C. K., 1 Jan 2022, *Market Development and Policy for One Belt One Road*. Elsevier, p. 9-25 17 p.

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Liang, C., Huang, Y., Yip, T. L. & Li, V. J., Jan 2022, In: Transportation Research Part A: Policy and Practice. 155, p. 354-372 19 p.

Marine insurance claims analysis using the Weibull and log-normal models: Compensation for oil spill pollution due to tanker accidents

Ching, R. H. F. & Yip, T. L., Jan 2022, In: Maritime Transport Research. 3, 100056.

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Liang, C., Hui, E. C. M. & Yip, T. L., 2022, (Accepted/In press) In: International Journal of Housing Markets and Analysis.

Use of fuzzy fault tree analysis and noisy-or gate bayesian network for navigational risk assessment in qingzhou port

Zhao, C., Wu, B., Yip, T. L. & Lv, J., Dec 2021, In: TransNav. 15, 4, p. 765-771 7 p.

What moves Hong Kong's train ridership?

Woo, C. K., Cao, K. H., Zarnikau, J., Yip, T. L. & Chow, A., Dec 2021, In: Research in Transportation Economics. 90, 101133.

Identifying important ports in maritime container shipping networks along the Maritime Silk Road

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Bi-perspective sulfur abatement options to mitigate coastal shipping ships emissions: A Case Study of Chinese coastal zone

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Improved fuzzy AHP based game-theoretic model for shipyard selection

Sahin, B., Yazir, D., Soylu, A. & Yip, T. L., 1 Aug 2021, In: Ocean Engineering. 233, 109060.

A novel fuzzy Bayesian network-based MADM model for offshore wind turbine selection in busy waterways: An application to a case in China

Xue, J., Yip, T. L., Wu, B., Wu, C. & van Gelder, P. H. A. J. M., Jul 2021, In: Renewable Energy. 172, p. 897-917 21 p.

Carrier-shipper risk management and coordination in the presence of spot freight market

Wang, K. Y., Wen, Y., Yip, T. L. & Fan, Z., May 2021, In: Transportation Research Part E: Logistics and Transportation Review. 149, 102287.

An overview of robust maritime situation awareness methods

Xu, X., Chen, X., Wu, B. & Yip, T. L., Apr 2021, *6th International Conference on Transportation Information and Safety: New Infrastructure Construction for Better Transportation, ICTIS 2021*. Institute of Electrical and Electronics Engineers Inc., p. 1010-1014 5 p. (6th International Conference on Transportation Information and Safety: New Infrastructure Construction for Better Transportation, ICTIS 2021).

Use of a system-theoretic model for safety analysis of remotely-controlled system of inland ships

Zhang, P., Wu, B., Cheng, T. & Yip, T. L., Apr 2021, *6th International Conference on Transportation Information and Safety: New Infrastructure Construction for Better Transportation, ICTIS 2021*. Institute of Electrical and Electronics Engineers Inc., p. 1458-1464 7 p. (6th International Conference on Transportation Information and Safety: New Infrastructure Construction for Better Transportation, ICTIS 2021).

A novel emergency decision-making model for collision accidents in the Yangtze River

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Yazir, D., Şahin, B. & Yip, T. L., Mar 2021, In: Asian Journal of Shipping and Logistics. 37, 1, p. 91-104 14 p.

A quantitative liability risk assessment of oil spills in oil ports: the case of the Guangdong-Hong Kong-Macao Greater Bay Area

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Dynamic interdependence and volatility spillovers across bunker fuel markets and shipping freight markets

Yip, T. L., 2021, (Accepted/In press) In: Maritime Policy and Management.

Exploring the impact of port-centric information integration on port performance: the case of Qingdao Port

Jiang, B., Haider, J., Li, J., Wang, Y., Yip, T. L. & Wang, Y., 2021, (Accepted/In press) In: Maritime Policy and Management.

Performance-based regulation of train service delays: Hong Kong

Woo, C. K., Cao, K. H., Yip, T. L., Chow, S. Y., Chu, C. L., Zarnikau, J. & Mow, C., 2021, (Accepted/In press) In: Applied Economics Letters.

Quasi-convex feasibility problems: Subgradient methods and convergence rates

Hu, Y., Li, G., Yu, C. K. W. & Yip, T. L., 2021, (Accepted/In press) In: European Journal of Operational Research.

Effects of COVID-19 on maritime industry: a review

Yazir, D., Şahin, B., Yip, T. L. & Tseng, P. H., 30 Dec 2020, In: International maritime health. 71, 4, p. 253-264 12 p.

Private land use for public housing projects: The Influence of a Government Announcement on Housing Markets in Hong Kong

Liang, C., Hui, E. C. M., Yip, T. L. & Huang, Y., Dec 2020, In: Land Use Policy. 99, 105067.

The Asia cruise tourism industry: Current trend and future outlook

Lau, Y. Y. & Yip, T. L., Dec 2020, In: Asian Journal of Shipping and Logistics. 36, 4, p. 202-213 12 p.

A novel oil port risk and efficiency performance measured by using AIS data and maritime open data: The case of Guangzhou, China

Zhong, H., Lin, Y., Yip, T. L., Cai, W. & Gu, Y., 15 Nov 2020, In: Ocean Engineering. 216, 107859.

How does a bank's involvement interplay with a firm's capacity investment? An analysis and comparison of different consortium structures

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The united states' clothing imports from asian countries along the belt and road: An extended gravity trade model with application of artificial neural network

Ho, D. C. K., Chan, E. M. H., Yip, T. L. & Tsang, C. W., Sept 2020, In: Sustainability (Switzerland). 12, 18, 7433.

A quantitative decision-making model for emergency response to oil spill from ships

Wu, B., Zhang, J., Yip, T. L. & Guedes Soares, C., Jul 2020, In: Maritime Policy and Management. p. 1-17 17 p.

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An application of a fuzzy TOPSIS multi-criteria decision analysis algorithm for dry bulk carrier selection

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Differences in study workload stress and its associated factors between transfer students and freshmen entrants in an Asian higher education context

Cheung, K., Yip, T. L., Johnny Wan, C. L., Tsang, H., Zhang, L. W. & Parpala, A., May 2020, In: PLoS ONE. 15, 5, e0233022.

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Wu, B., Cheng, T., Yip, T. L. & Wang, Y., 1 Feb 2020, In: Ocean Engineering. 197, 106909.

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Fuzzy logic based approach for ship-bridge collision alert system

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Use of association rules for cause-effects relationships analysis of collision accidents in the yangtze river

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Guest editorial

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Activities

Navigation safety modelling for autonomous ships

Yip, T. L. (Invited speaker)

25 May 2023

Maritime Business Review (Journal)

Yip, T. L. (Editor in chief)

1 Sept 2022

CY Tung International Centre for Maritime Studies (Organisational unit)

Yip, T. L. (Chair / President)

1 Aug 2022

11th International Forum on Shipping, Ports, and Airports (IFSPA 2022)

Yip, T. L. (Co-chair)

16 May 2022 → 20 May 2022

Impact Case Study - Maritime Economics, Policy and Management

Yip, T. L. (Participant)

30 Jun 2021

Impact Case Study - Maritime Safety

Yip, T. L. (Participant)

30 Jun 2021

10th International Forum on Shipping, Ports and Airports (IFSPA) 2019

Yip, T. L. (Co-chair)

20 May 2019 → 24 May 2019

Asian Journal of Shipping and Logistics (Journal)

Yip, T. L. (Associate editor)

1 Jan 2019 → ...

PolyU Staff Club (External organisation)

Yip, T. L. (Chair / President)

1 Jan 2019 → ...

International Forum on Shipping, Ports and Airports 2017

Yip, T. L. (Chair)

22 May 2017 → 25 May 2017

Maritime Business Review (Journal)

Yip, T. L. (Editor)

1 Jan 2016 → 31 Aug 2022

CY Tung International Centre for Maritime Studies (Organisational unit)

Yip, T. L. (Deputy Chair / Deputy President)

1 Jul 2014 → 31 Jul 2022

Institution of Mechanical Engineers (IMechE) (External organisation)

Yip, T. L. (Member)

2012

CY Tung International Centre for Maritime Studies (Organisational unit)
Yip, T. L. (Vice Chair / Vice President)
1 Sept 2008 → 30 Jun 2014

CY Tung International Centre for Maritime Studies (Organisational unit)
Yip, T. L. (Member)
1 Sept 2005 → 31 Aug 2008

Prizes

2016 Outstanding Reviewer Award
Yip, T. L. (Recipient), Apr 2016

A silver medal invention award for the "HaiDex System, a diffusion-characterized indexing technology to forecast regional Harmful Algal Bloom
LIU, J. (Recipient), Lo, C. L. S. (Recipient), YAN, J. (Recipient), HO, K. (Recipient) & Yip, T. L. (Recipient), Apr 2008

Best MPM Review Award of 2020
Yip, T. L. (Recipient), 8 Apr 2021

Best Paper Award
Zhao, C. (Recipient), Wu, B. (Recipient), Yip, T. L. (Recipient), Lyn, J. (Recipient) & Zhang, J. (Recipient), 20 May 2022

Faculty Award for Outstanding Performance / Achievement 2014/2015
Yip, T. L. (Recipient), 12 Oct 2015

Faculty Prize for Outstanding Performance / Achievement 2018/2019
Yip, T. L. (Recipient), 31 Oct 2019

Korea Shipowners Association Prize for the Winner of the Commended Paper Award
Yip, T. L. (Recipient), 26 Jun 2015

Maritime Policy & Management Best Manuscripts 2021
Wu, B. (Recipient), Zhang, J. (Recipient), Yip, T. L. (Recipient) & Guedes Soares, C. (Recipient), 23 Feb 2023

Outstanding Paper in 2019
Yip, T. L. (Recipient), 4 Dec 2020

Publons Peer Reviewer Awards 2018
Yip, T. L. (Recipient), Sept 2018

Silver Award
LIU, J. J. (Recipient), Lo, C. L. S. (Recipient), YAN, J. (Recipient), HO, K.-C. (Recipient) & Yip, T. L. (Recipient), Apr 2008

The world's top 2% of most-cited scientists in the discipline of Transportation and Logistics
Yip, T. L. (Recipient), 3 Nov 2022

The World's top 2% of most-cited scientists in the discipline of Transportation and Logistics
Yip, T. L. (Recipient), 6 Jul 2019

The World's top 2% of most-cited scientists in the discipline of Transportation and Logistics
Yip, T. L. (Recipient), 8 Oct 2020

The World's top 2% of most-cited scientists in the discipline of Transportation and Logistics
Yip, T. L. (Recipient), 20 Oct 2021

The World's Top 2% of Scientists by Citation in the discipline of Logistics & Transportation
Wang, S. (Recipient) & Yip, T. L. (Recipient), 4 Oct 2023

Top Peer Reviewer 2019
Yip, T. L. (Recipient), Sept 2019

World's Top 2% Most-cited Scientists 2025
Yip, T. L. (Recipient), Aug 2025

World's Top 2% Most-cited Scientists 2026
Yip, T. L. (Recipient), Aug 2026

World's Top 2% Scientists by Citation
Cheng, E. T. C. (Recipient), Lai, K. H. (Recipient), Wang, S. (Recipient), Yeung, A. C. L. (Recipient) & Yip, T. L. (Recipient), Aug 2024

Press/Media

Cruise terminal leads to strong demand for manpower
Yip, T. L.
1/07/13
1 item of Media coverage

Developing port cities is crucial for Hebei
Yip, T. L.
18/09/07
1 item of Media coverage

Ferry accident prompts new call for safety review
Yip, T. L.
27/10/15
1 item of Media coverage

Green maritime hub
Yip, T. L.
27/02/24
1 item of Media coverage

Green Smart Port
Yip, T. L.
21/03/24
1 Media contribution

Hong Kong Policy Address 2024
Yip, T. L.
12/10/24
1 Media contribution

Mongolia's new dry ports
Yip, T. L.

26/11/23
1 Media contribution

Red Sea attacks

Yip, T. L.
21/02/24
1 item of Media coverage

環團研究揭高速船減白海豚八成聽力 增撞船風險

Yip, T. L.
8/12/17
1 item of Media coverage