Curriculum Vitae Haiying JIA

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Working experience

08.2019 – present	Assistant Professor, Department of Business and Management Science, Norwegian School of Economics, Norway
05.2018 – 08.2019	Visiting Scholar, Centre for Transportation & Logistics, Massachusetts Institute of Technology, the United States
11.2014 – 08.2019	Senior Researcher, Centre for Applied Research SNF, Norwegian School of Economics, Norway
05.2011 – 06.2014	Managing director, Entrepreneur, Frey Partners AS, Norway/Hong Kong
03.2006 – 07.2009	Investment Analyst, Gugner Partners LLP, London
11.2003 – 03.2005	Investment quantitative analyst, ORN Capital LLP, London
03.2001 – 03.2002	Research Assistant, Hong Kong Polytechnic University

Education

7/2006	Awarded the degree of Ph.D. in Finance, Cass Business School, London, the United Kingdom, thesis title "Market Conditions and the Functioning of Metal Futures Markets"
4/2001	M.Sc. in Shipping Economics, Dalian Maritime University, China
7/1998	Bachelor of Engineering in Logistics, Dalian Maritime University, China

Research projects funding

2018-2021	SmartDigital, Smart Digital Contracts and Commercial Management, Application author and Project leader, NOK 12.7m (USD 1.7m), Norwegian Research Council knowledge building project, partner with UCL, MIT, Kedge Business School and U. of Nantes, BIMCO, Bergen Shipowner Association, Wikborg Rein
2016 - 2019	REEalSea, Real Energy Efficiency and Emissions in the Seaway, co-operation with Nanyang Technical University, Singapore. NOK11.8 million total budget (USD 1.3m) from the Research Council of Norway MAROFF programme and Singapore Maritime Institute, with industry partners SKS Tankers and DNV GL Singapore.
2014 - 2017	GREENSHIPRISK, Green shipping under uncertainty, NOK12.5 million total budget (USD 1.4m), Research Council of Norway MAROFF

	programme and industry partners shipowners Odfjell ASA and Western Bulk AS.
2014 - 2016	CARGOMAP – Mapping vessel behaviour and cargo flows, NOK6 million total budget (USD 0.7m), Research Council of Norway SMARTRANS programme.

Teaching Experience:

2015/16/17	Big Data in Shipping, guest lecture, master level – Norwegian School of Economics
2003/04	Advanced Excel Computing, TA, master level – Cass Business School
2003/04	Quantitative methods and business mathematics, undergraduate level – Cass Business School
2001/02	International trade, TA, undergraduate level - Hong Kong Polytechnic University

Publications in international peer-reviewed journals

1. Jia, H. (2019). How big data enriches maritime research – acritical review of Automatic Identification System(AIS) data applications. Transport Reviews DOI: 10.1080/01441647.2019.1649315 (co-authored with Dong Yang, Lingxiao Wu, Shuaian Wang, Haiying Jia & Kevin X. Li)
2. Jia, H. (2019). Contractual Barriers and Energy Efficiency in the Crude Oil Supply Chain. 2018 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)
3. Jia, H. (2018). Crude oil trade and green shipping choices. *Transportation Research Part D.* 65: 618-634.
4. Jia, H. (2018). Estimating vessel payloads using AIS data in bulk shipping. *International Journal of Shipping and Transport Logistics.* Upcoming. (co-authored with V. Prakash, T. Smith)
5. Jia, H. (2018). The energy efficiency effects of periodic hull maintenance. *Journal of Cleaner Production.*178: 1-13. (co-authored with R. Adland, P. Cariou and F.C. Wolff)
6. Jia, H. (2017) Norwegian port connectivity and its policy implications. *Maritime Policy & Management* http://dx.doi.org/10.1080/03088839.2017.1366080 (co-authored with O. D. Lampe, V. Solteszova and S. P. Strandenes)
7. Jia, H. (2017). Energy efficiency with the application of virtual arrival policy. Transportation Research Part D,54: 50-60 (co-authored with R. Adland, V. Prakash, and T. Smith)
8. Jia, H. (2017). The impact of regional environmental regulations on empirical vessel speeds, *Transportation Research Part D* 53: 37-49 (co-authored with Adland, R., Daae, O., Fonnes, G. and Strandenes, S. P.)

9. Jia, H. (2017). An automatic algorithm for generating seaborne transport pattern maps based on AIS. *Maritime Economics and Logistics*, 19(4): 619-630 (co-authored with Daae, O., Fonnes, G. and Strandenes, S. P.)
10. Jia, H. (2017). Are AIS-based trade volume estimates reliable? The case of crude oil exports, *Maritime Policy & Management.* 44(5): 657-665 (co-authored with Adland, R. and Strandenes, S. P.)
11. Jia, H. (2017). Physical basis risk in freight market hedging, *Maritime Economics and Logistics*, 19(2): 196-210 doi:10.1057/s41278-016-0053-5 (co-authored with Adland, R.)
12. Jia, H. (2017). Does fuel efficiency pay? Empirical evidence from the drybulk timecharter market revisited. *Transportation Research Part A* 95: 1-12 (co-authored with R. Adland, H. Alger and J. Banyte)
13. Jia, H. (2016). The determinants of vessel capacity utilization: the case of Brazilian iron ore exports, *Transportation Research Part A.* http://dx.doi.org/10.1016/j.tra.2016.11.023 (co-authored with Adland, R. and Strandenes, S. P.)
14. Jia, H. (2016). Vessel speed analytics using satellite-based ship position data. 2016 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM) proceedings. (co-authored with R. Adland)
15. Jia, H. (2016). Dynamic speed choice in bulk shipping, *Maritime Economics & Logistics*, https://doi.org/10.1057/s41278-016-0002-3 (co-authored with Adland, R.)
16. Jia, H. (2015): Shipping market integration: The case of sticky newbuilding prices, *Maritime Economics & Logistics* 17(4), 389–398. (co-authored with Adland, R.)
17. Jia, H. (2008): Default risk in bulk shipping: A conceptual approach, *Transportation Research Part E,* 44(1), 152-163. (co-authored with Adland, R.)
18. Jia, H. (2008): Price Dynamics in the Market for Liquid Petroleum Gas Transport, *Energy Economics,* 30(3), 818-828. (co-authored with Adland, R. and Lu, J.)
19. Jia, H. (2006): Asset bubbles in shipping? An analysis of recent history in the drybulk market, *Maritime Economics and Logistics*, 8, 223 – 233. (co-authored with Adland, R. and Strandenes, S. P.)
20. Jia, H. (2004): The Pricing of Forward Ship Value Agreements and the Unbiasedness of Implied Forward Prices in the Second-hand Market for Ships, *Maritime Economics and Logistics*, 6(2), 109-121. . (co-authored with Adland, R. and Koekebakker, S.)

International conference participation:

- World Congress on Engineering Asset Management (WCEAM), Sydney, 2017
- World Conference on Transportation Research, Shanghai 2016

- Logistics and Maritime Studies (LOGMS), Kuala Lumpur 2015, Bergen 2017
- International Association of Maritime Economists (IAME) conference, Mombassa 2018; Kyoto 2017; Hamburg 2016; Kalua Lumpur 2015; Hong Kong 2001.
- INFORMS, San Francisco 2015
- European Financial Association (EFA) conference, Zurich 2006.

Employment Details:

11.2014 – present Centre for Applied Research (SNF), Norwegian School of Economics

Senior Researcher

- Conduct applied economics research in shipping and energy economics
- Currently working projects that are sponsored by the Norwegian Research Council and industry, investigating energy efficiency in the shipping industry and policy related emission control aspects

05.2011 – 06.2014 Frey Partners AS, Managing director, Entrepreneur

- Start-up with a small group of talents, developing analytical tools for evaluating demand and trade flows in the global shipping and commodity markets.
- Innovasjon Norge honoured two grants for the development of the project. Also won a stipend for a renowned business mentor.
- The Intellectual Property was signed over to an international high-tech company in return for equity share in June 2014.

03.2006 – 07.2009 Gugner Partners LLP, London, Investment Analyst

- Fundamental company analysis across industries and geographical regions for small/mid-cap companies. Including analysis of "hard asset" based companies such as oil/gas offshore rig and shipping companies. Particular focus on deconstructing financial statements to calculate comparable free cash flow yield across companies.
- Assessing debt structure and strength of balance sheet, maturity structure and cost of refinancing debt, particularly during the financial crisis. Assessing the investment potential in a company's equity and corporate bonds as a package.
- In-depth analysis of the Strengths, Weaknesses, Opprtunities and Threats (SWOT) of a company by questioning company management, suppliers and competitors.
- Preparing questions and attending meetings with company executives, both with team and one-on-one.
- Screening for companies/equities satisfying certain financial criteria (e.g. debt structure, cashflow yield) and ranking the output for more detailed analysis.

11.2003 – 03.2005 ORN Capital LLP, London, Investment quantitative analyst

- Assisted the fund managers with hedging the portfolio risk, constructing Excel-based models for hedge ratios (pair trading and index hedging).
- Risk management. Developing spreadsheet tools to monitor share/portfolio stop-loss criteria, sector and market cap exposure. Reporting of portfolio risk parameters and performance to portfolio manager.
- Undertake some fundamental company analysis and equity screening.
- Preparation of annual “Roadshow” presentation to investors
- Preparation of weekly/monthly fund performance statistics for Investor Relations to be sent to investors.
- Liaising with mid/back office during weekly/month-end reconciliation of portfolio

03.2001-03.2002

Hong Kong Polytechnic University, Hong Kong
Research Assistant

- Developed survey and database of shipowners located in Hong Kong
- Analysing corporate decision making with regards to ship registration
- Taught International Trade to undergraduate students