

# Curriculum Vitae

## **Prof. Dr.-Ing. habil. Tao Jiang**

### **Qualification and Education**

2000 Habilitation Degree, Faculty of Mechanical Engineering,  
at the Mercator University Duisburg, Germany  
Habilitation Thesis: Ship Waves in Shallow Water

1990 Doctor Degree, Institute for Ship Building,  
at the University Hamburg, Germany  
Doctor Thesis: Investigation of Nonlinear Ship Dynamics  
Involving Instability and Chaos in Examples from Offshore Technology

1986 Diploma Degree, Institute for Naval Architecture  
at the University Hamburg, Germany  
Diploma Thesis: Motion Simulation of the Slowly Moving Large Ships

1982 Bachelor Degree of Science, Faculty of Naval Architecture and  
Ocean Engineering  
at the Dalian University of Technology, Dalian, China  
Bachelor Thesis: Application of the Strip Theory for Ship Motions

### **Professional Experience and Position**

Since 2018 Honorary Professor and PhD Advisor of the Institute for Ship  
Technology and Ocean Engineering (former ISMT, now the Institute  
of Sustainable and Autonomous Maritime Systems, INAM),  
Department Mechanical Engineering at University of Duisburg-Essen,  
Germany  
Teaching fields: Shallow-Water Hydrodynamics and Ship in Shallow  
and Restricted Water

2000 - 2017 PhD Advisor and private lecturer of the Institute for Ship Technology  
and Ocean Engineering, Department Mechanical Engineering at  
University of Duisburg-Essen, Germany  
Teaching fields: Hydrodynamics in Shallow Water

Since 2011 Special Expert Reviewer for AiF - Alliance of Industry and Research  
in Germany

Since 2010 Director for Greater China of HANSA International Maritime Journal

Since 2009 Managing Director of D & C Tech Trade GmbH, Duisburg, Germany  
  
Working fields: Consulting services of shipbuilding and shipping;  
of environmental technologies; Initiation and coordination of science  
and technical cooperation, multicultural teaching and communication

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| 2000 - 2008 | Member of the Board at the Development Centre for Ship Technology and Transport Systems, Duisburg (DST)<br><br>Working fields: Management of human power, coordination of projects, acquisition of research and industrial projects in the fields of numerical and experimental optimisations of hull form and powering systems, of seakeeping and manoeuvring tests, and of wave generations, especially in shallow water.   |
| 1998 - 2010 | Advisor of the Board of Germanischer Lloyd for the Business Development in China  |
| 1994 - 2000 | Senior Engineer and Lecturer in the Institute of Ship Technology at the Mercator University Duisburg, Germany<br><br>Research fields: Numerical ship hydrodynamics, shallow water waves as well as parametric rolling and broaching to of ships in following seas.<br><br>Teaching fields: Ship waves and resistance, propulsion systems, motions in waves as well as controllability.<br><br>Diploma advisor: Hydrodynamic optimisations, ship motion control, escort manoeuvring, pod propulsion as well as passive and active stabilisation. |
| 1991 - 1994 | Senior Researcher in the Department of Ship Technology at the Mercator University Duisburg, Germany<br><br>Research fields: Nonlinear dynamics in the ship and offshore technology, experimental investigation and stabilisation of single-point mooring systems, modelling and controlling of tug-towing systems as well as parameter identification.<br><br>Teaching fields: Numerical marine hydrodynamics.<br><br>Diploma advisor: Ship motion simulation, passive and active stabilisation as well as wave loads.                          |
| 1986 - 1991 | Research Engineer at Germanischer Lloyd, Hamburg<br><br>Working fields: Hydrodynamic modelling of marine systems, calculation of hydrodynamic response and wave loads, valuation and control of motions in waves as well as assistance and co-ordination of projects with China (new building of ships and research co-operation in a wind energy project).   |

## Scholarship and Prices

- Georg-Weinblum-Price 2000 awarded by the STG in Germany
- Medal of the prestigious WERNER-VON-SIEMENS-RING foundation in 1995
- Scholarship of the Ministry of Education of China for the Naval-Architecture Study at the University Hamburg 10.1983-2.1986
- Scholarship of the Dalian University of Technology 3.1978-7.1982