



## HAOQI XIE

Nationality: Chinese Date of birth: 13/07/1993



### EDUCATION AND TRAINING

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#### Ph.D.: Logistics and Transportation

*University of Genova* [ 11/2021 – Current ]

Country: Italy | Field(s) of study: Logistics and Transportation

#### Ph.D. Visiting Period

*Department of Mechanical Engineering, Delft University of Technology* [ 11/2023 – 11/2023 ]

Country: Netherlands

#### Master's Degree: Maritime and Port Economics and Management (Code: LM-77)

*University of Genova* [ 10/2017 – 09/03/2020 ]

Country: Italy

#### Bachelor's Degree: Duplice diploma on Logistics Management and English

*SICHUAN International Studies University* [ 08/2012 – 06/2016 ]

Country: China

### WORK EXPERIENCE

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#### Educational Support

*University of Genova, Department of Economics* [ 2020 – 2024 ]

- A.A. 2023----2024: 10 hours for the undergraduate course: Operations Research for Tourism and Revenue Management (code: 83700), Imperia, Italy;
- A.A. 2022----2023: 10 hours for the undergraduate course: Operations Research for Tourism and Revenue Management (code: 83700), Imperia, Italy;
- A.A. 2022----2023: 10 hours for the undergraduate course: Operations Research for the Management (code: 60077), Genova, Italy;
- A.A. 2020----2021: 10 hours for the undergraduate course: Operations Research for the Management (code: 60077), Genova, Italy.

#### Research Fellow

*Italian Center of Excellence on Logistics, Transport and Infrastructures, University of Genova* [

01/2021 – 06/2021 ]

City: Genova | Country: Italy

6 months of research fellow in the Italian Center of Excellence on Logistics, Transport and Infrastructures (CIELI) for the research project:

*Management of containers in the yard: optimal sequencing of operations of moving equipment*

Main work:

- data analysis;
- supporting the evaluation of a decomposition-based heuristic approach.

## PROJECTS

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[ 2022 – Current ]

**Optimization of the distribution of goods and materials for the residential center of Riomaggiore.** Italian Center of Excellence on Logistics, Transport and Infrastructures (CIELI), University of Genova.

Main work:

- Literature study;
- Quantitative study for proposing a potential strategy;
- Elaborating a report and presentation for the municipal of Riomaggiore, Cinque Terre.

[ 2023 – Current ]

**Ecosystem RAISE (Robotics and AI for Socio-economic Empowerment), University of Genova, Italy** The project is supported by PNRR, project Ecosystem RAISE

- SPOKE 4 – Sustainable Ports

Main work:

- Literature study on the Machine Learning techniques in container terminals.

## LANGUAGE SKILLS

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**Mother tongue(s):** Chinese

**Other language(s):**

### English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

### Italian (certificate: CILS)

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

### Spanish

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

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### Programming skills:

Basic knowledge on Programming: Python, Java, C++ / Basic knowledge on PyTorch and TensorFlow

### Optimization skills:

Optimization: GUROBI and CPLEX / Optimization: MPL and LINDO / Simulation environment: Witness

### Texting skills:

Microsoft Office / LaTeX

## PUBLICATIONS

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[Ambrosino, D., Xie, H. \(2023\). A new classification schema for literature reviews on the applications of machine learning and optimization methods in maritime terminals: a focus on the seaside area. ODS 2023, AIRO Springer series, vol 12](#)

[Ambrosino D, Xie H. Optimization approaches for defining storage strategies in maritime container terminals\[J\]. Soft Computing, 2023, 27\(7\): 4125-4137.](#)

[Ambrosino, D., Xie, H. \(2020\). An Optimization Model for Defining Storage Strategies for Export Yards in Container Terminals: A Case Study. Lecture Notes in Computer Science, 12433 LNCS, pp. 119-132.](#)

## WORKING PAPERS

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[ 2024 ]

**Integration of Machine Learning and Operational Research techniques: a literature review on the seaside area in container terminals.**

Haoqi Xie, Daniela Ambrosino

Submitted to Computers & Operations Research on 23, April 2024.

[ 2024 ]

**An Optimization Research on Operations Sequence of Reach-stackers in Container Yard.**

Daniela Ambrosino, Silvia Siri, Haoqi Xie

Working paper for submission to Computers & Operations Research

**A machine learning-based Optimization Model for Defining the Storage Rules in container yard.**

Daniela Ambrosino, Haoqi Xie.

Working paper for submission to Modelling

## CONFERENCES AND SEMINARS

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[ 14/02/2024 – 16/02/2024 ] University of Calabria, Rende

**8 AIROyoung Workshop 2024**

[ 04/09/2023 – 07/09/2023 ] Ischia, Italy

**International Conference on Optimization and Decision Science ODS 2023**

[ 21/09/2022 – 23/09/2022 ] University of Pompeu Fabra, Barcelona

**International Conference on Computational Logistics ICCL 2022**

[ 11/07/2021 – 14/07/2021 ] University of West Attica, Athens (Online)

**European Conference on Operational Research EURO Athens 2021**

[ 25/09/2020 – 28/09/2020 ] University of Twente, Enschede, The Netherlands (Online)

**International Conference on Computational Logistics ICCL 2020**