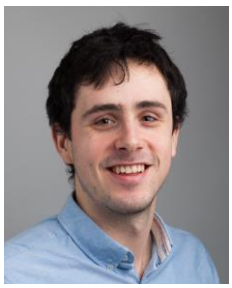

BERNARDO MARTIN-IRADI

27/09/1993 San Sebastián, Spain

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EDUCATION

TECHNICAL UNIVERSITY OF DENMARK (DTU) **Copenhagen, Denmark**

PhD in Operations Research at DTU Management Since December 2019

Title: Collaborative Container Terminal Optimization

Supervisors: Prof. Dario Pacino and Prof. Stefan Røpke

- Design and implementation of OR methods in container terminal operations involving information sharing from/to the terminal.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) **Cambridge, MA. USA.**

Visiting PhD student at MIT Sloan School of Management January-June 2022

Host: Prof. Alexandre Jacquillat

- Design and implementation of optimization methods for on-demand microtransit systems.

TECHNICAL UNIVERSITY OF DENMARK (DTU) **Copenhagen, Denmark**

MSc in Industrial Engineering and Management 2016-2018. *120 ECTS.* ***Avg grade 11/12***

- Specialized in Operations Research: Exact methods, Heuristics, Routing, Scheduling, etc.
- *Master thesis*: "Optimization in Railway Timetabling for regional and Intercity trains in Zealand" in collaboration with DSB.
  Supervisors: Prof. S. Røpke (DTU), Eng. F. Farina (DTU) and Eng. E. Linde (DSB). ***Grade: 12/12 (A)***

ETSEIB – POLYTECHNICAL UNIVERSITY OF CATALONIA (UPC-BarcelonaTech) **Barcelona, Spain**

MSc in Industrial Engineering 2015-2018. *120 ECTS*. ***Avg grade 8.75/10 - (top 2 of 247)***

- *Main Subjects*: Industrial Scheduling (awarded with honors), Transport systems, Quantitative Methods for Industrial Process Management, etc.

TECHNISCHE UNIVERSITÄT BERLIN (TUB) **Berlin, Germany**

Erasmus exchange semester 02-08/2015 including the fulfillment of the BSc thesis.

ETSEIB – POLYTECHNICAL UNIVERSITY OF CATALONIA (UPC-BarcelonaTech) **Barcelona, Spain**

BSc in Industrial Technology Engineering 2011-2015. *240 ECTS.* ***Avg grade 7/10***

- *Main Subjects*: Mathematics, Mechanics, Computer Science, Statistics, Project Management, Electronics, etc.
- *Bachelor Thesis*: Decision Support for sustainable product design based on an automatized FEM analysis.
  Supervisors: Prof. R. Stark (TUB) and Eng. A. Pförtner (TUB).

INSTITUTE XABIER ZUBIRI MANTEO **San Sebastián, Spain**

Technological High School 2009-2011

- Diploma awarded with honors

RESEARCH INTERESTS

Mathematical optimization, Transportation, Maritime Logistics, Container Terminals, Network Optimization, Vehicle Routing, Heuristics, Column Generation, Cooperative Game Theory,

EXPERIENCE

AMCS GROUP

October 2018- November 2019 in Copenhagen (Denmark)

Routing Consultant

- Leading company in software for route transport optimization. Consultancy work in the Operations department at the Routing division. Tasks involving implementation, customization and maintenance of static and dynamic route planning solutions.

TECHNICAL UNIVERSITY OF DENMARK (DTU)

Teaching Assistant

- *Optimization using Metaheuristics*. Courses 2019-20 and 2020-21. Supporting Prof. Dario Pacino and Prof. Thomas Stidsen.
- *Large Scale Optimization using Decomposition Methods*. Course 2017-18. Supporting Prof. Stefan Røpke and Prof. Thomas Stidsen.
- *Introduction to Management Science*. Course 2017-18. Support to Prof. Richard Lusby and Prof. Martin Kidd

AWARDS & PRIZES

ETSEIB – POLYTECHNICAL UNIVERSITY OF CATALONIA (UPC-BarcelonaTech) **Barcelona, Spain**

October 2018

Best academic record in the MSc of Industrial Engineering specialized in Industrial Management. Award sponsored by Accenture.

5th AIRO Young workshop **Naples, Italy**

February 2021

Prize for best presentation. Grant for participation in the next AIRO Young 2022 workshop.

PUBLICATIONS & TECHNICAL REPORTS

Martin-Iradi, B., Ropke, S., 2022. A column-generation based matheuristic for periodic and symmetric train timetabling with integrated passenger routing. *European Journal of Operational Research, 297(2), 511-531.* https://doi.org/10.1016/j.ejor.2021.04.041

Martin-Iradi, B., Pacino, D., Røpke, S., 2022. The Multiport Berth Allocation Problem with Speed Optimization: Exact Methods and a Cooperative Game Analysis. *Transportation Science, 56(4), 972-999.* https://doi.org/10.1287/trsc.2021.1112

CONFERENCES

Contributed presentations at:

- **5th AIRO Young Workshop** February, 2021 in Naples, Italy
- **EURO 2021** July, 2021 in Athens, Greece
- **IFORS 2021** August, 2021 in Seoul, South Korea
- **ICCL 2021** September, 2021 in Twente, Netherlands
- **2021 INFORMS Annual Meeting** October, 2021 in Anaheim, CA, United States
- **TRISTAN XI** June, 2022 in Mauritius.
- **EURO 2022** July, 2022 in Espoo, Finland.

REVIEWER

- **Annals of Operations Research**
- **Naval Research Logistics**
- **Transportation Research Part B: Methodological**

GRANTS & SCOLARSHIPS

Grants to support the external research stay during the PhD studies:

- **Reinholdt W. Jorck og Hustrus Fond** November, 2021. Amount: **20.000 DKK (2700 €)**
- **Stibofonden** December, 2021. Amount: **30.000 DKK (4000 €)**
- **Otto Mønsteds Fond** February, 2022. Amount: **20.000 DKK (2700 €)**

Grant to support dissemination of research at international conferences:

- **Otto Mønsteds Fond** June, 2022. TRISTAN XI conference in Mauritius. Amount: **7.500 DKK (1000 €)**

LANGUAGES

SPANISH, BASQUE: Native.

ENGLISH: Fluent. TOEFL (107/120) in 2016 and Cambridge CAE certificate in 2011.

GERMAN: Intermediate. Attended B2 level courses during my Erasmus exchange semester in Berlin.

FRENCH, SWEDISH, DANISH: Basic understanding.

IT AND PROGRAMMING SKILLS

PROGRAMMING: Julia (+++), Python (++), GAMS (++), Java (++), SQL (++), C# (++), MatLab (++), XSL (++), R (+).

SOFTWARE: Microsoft Office, LaTeX, CAD Software, Simulink, Minitab,

INTERESTS

SPORTS

- Active basketball player, daily cyclist and occasional squash player.
- Way of Saint James (800km France/Spain) by bike in 9 days (2012).

LEISURE

- Cinema enthusiast, modern art and architecture admirer, avid reader, curious traveler, occasional dancer and former clarinetist.

OTHERS

- Member of INFORMS, and the Danish (DORS) and Spanish (SEIO) societies of Operations Research.