Thibault Prunet
Postdoctoral Researcher at Ecole des Ponts

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🎓 EDUCATION

Ph.D. 2020-2023	Ecole des Mines de Saint-Etienne, FR, Ph.D. in Industrial Engineering. PhD Thesis : Human-Aware optimization of tactical warehousing problems. Advisors : Nabil Absi, Valeria Borodin, Diego Cattaruzza
M.Sc. 2017-2019	Technical University of Denmark (DTU), DK, M.Sc. in Industrial Engineering and Management. Master Thesis : Solving a pick up and delivery problem with time windows and real-life side constraints. Advisor : Stefan Ropke
M.Sc. 2014-2016	CentraleSupelec, FR, M.Sc. in Engineering. Undergraduate and Graduate French engineering "Grandes Ecole".
B.Sc. 2015-2016	Paris Dauphine University, FR, B.Sc. in Applied Economics.
B.Sc. 2012-2014	Lycee Saint-Louis, FR, Preparatory Classes. 2-years intensive undergraduate program preparing for the competitive entrance examinations to French "Grandes Ecoles".

💼 PROFESSIONAL & ACADEMIC EXPERIENCE

2024-	**Postdoctoral Researcher**, Ecole des Ponts Paristech
2020-2023	**Research Assistant**, Ecole des Mines de Saint-Etienne
2020-2023	**Teaching Assistant**, Ecole des Mines de Saint-Etienne
2019	**Teaching Assistant**, Technical University of Denmark
2016-2017	**Civic Volunteer Service**, Les Glenans

🖥 SKILLS

Programming	Julia (advanced), Python (intermediate)
Software	CPLEX, Gurobi
High Performance Computing	Parallel Computing, SLURM Clusters
Documentation	Microsoft Office, LaTeX

📕 PUBLICATIONS

Peer-Reviewed Journal Papers

> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *The Intractability of the Picker Routing Problem* (working paper).
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D. *The Storage Location Assignment and Picker Routing Problem : A Generic Branch-Cut-and-Price Algorithm* (working paper).
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D. *Optimization of Human-Aware Manufacturing and Logistics Systems : A Comprehensive Review of Modeling Approaches and Applications*, EURO Journal on Transportation and Logistics (third revision).
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D. *Optimization of Human-Aware Manufacturing and Logistics Systems : A Survey on the Modeling Frameworks of Human Aspects*, EURO Journal on Transportation and Logistics (third revision).

International Conferences

> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *Efficient Move Evaluation and Neighborhood Exploration for Integrated Order Picking Planning Problems in Picker-to-Parts Warehouses*, Odysseus 2024, Carmona, Spain.
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *A Branch-Cut-and-Price Algorithm for the Storage Location Assignment and Picker Routing Problem*, ECCO 2023, Chania, Greece.
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *Branch-Cut-and-Price Algorithm for an Integrated Storage Location Assignment and Picker Routing Problem*, Odysseus 2022, Tangier, Morocco.
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *Storage Location Assignment Problem in Fast Pick Areas : A novel formulation and decomposition method*, CPAIOR 2021, Vienna, Austria.

National Conferences

> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *The Storage Location Assignment and Picker Routing Problem : A Generic Branch-Cut-and-Price Algorithm*, ROADEF 2024, Amiens, France.
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *Efficient Move Evaluation and Large Neighborhood Search Algorithm for Integrated Optimization of Order Picking Problems*, ROADEF 2024, Amiens, France.
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *The Storage Location Assignment and Picker Routing Problem : A Branch-Cut-and-Price Algorithm*, ROADEF 2023, Rennes, France.
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *Branch-Cut-and-Price for an Operational Storage Location Assignment Problem*, ROADEF 2022, Lyon, France.
> **Prunet T.**, Absi N., Borodin V., Cattaruzza D., *Storage Location Assignment in Fast Pick Area : A column generation approach*, ROADEF 2021, Mulhouse, France.

✚ Scientific responsibilities

> **Session organizer/chair for the conferences** : ROADEF 2023, ROADEF 2024
> **Reviewer for the journals** : OR Spectrum, 4OR
> **Reviewer for the conferences** : ROADEF 2022, ROADEF 2023, ROADEF 2024

✏ Teaching

Ecole des Mines de Saint-Etienne

Spring 2023	Graphs and Optimization (21h)
Spring 2022	Optimization challenge (16h)
Spring 2022	Graphs and Optimization (21h)
Spring 2021	Optimization challenge (16h)
Spring 2021	Graphs and Optimization (21h)
Spring 2020	Optimization Challenge (16h)

Technical University of Denmark

Spring 2019	Design of lean production and service systems (104h)

▤ Supervision

Ecole des Mines de Saint-Etienne

Spring 2022	ISA Project (short project)
Spring 2021	ISA Project (short project)
2020–2021	Industrial Project (1-year project)