

Thibault Prunet

Postdoctoral Researcher at Ecole des Ponts

[in linkedin.com/in/thibault-prunet-9a1803ab/](https://www.linkedin.com/in/thibault-prunet-9a1803ab/)

<https://prunett.github.io/>

+33 6 09 55 15 40

@ thibault.prunet@enpc.fr



EDUCATION

Ph.D. 2020-2023	Ecole des Mines de Saint-Etienne, FR, Ph.D. in Industrial Engineering. PhD Thesis : Human-Aware Optimization of Integrated Order Picking Decisions in Warehousing Logistics. 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	CentraleSupélec (former Centrale Paris), FR, M.Sc. in Engineering. Undergraduate and Graduate French engineering "Grandes Ecoles".
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-	Teaching Assistant , Ecole Nationale des Ponts et Chaussées
2024-	Postdoctoral Researcher , Ecole Nationale des Ponts et Chaussées
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, Git
High Performance Computing	Parallel Computing, SLURM Clusters
Documentation	Microsoft Office, \LaTeX

Peer-Reviewed Journal Papers

- > **Prunet T.**, Absi N., Cattaruzza D. (2025), *A note on the complexity of the picker routing problem in multi-block warehouses and related problems*, Annals of Operations Research.
- > **Prunet T.**, Absi N., Borodin V., Cattaruzza D. (2024) *Optimization of Human-Aware Logistics and Manufacturing Systems : A Comprehensive Review of Modeling Approaches and Applications*, EURO Journal on Transportation and Logistics.
- > **Prunet T.**, Absi N., Borodin V., Cattaruzza D. (2024) *Optimization of Human-Aware Logistics and Manufacturing Systems : A Survey on the Human-Aware Models*, EURO Journal on Transportation and Logistics.

Preprints

- > **Prunet T.**, Absi N., Cattaruzza D., *The Storage Location Assignment and Picker Routing Problem : A Generic Branch-Cut-and-Price Algorithm*, under major revision at the European Journal of Operational Research.
- > **Prunet T.**, Absi N., Cattaruzza D., *Joint Optimization of Order Picking Problems : Surrogate Move Evaluation and Efficient Neighborhood Exploration*, working paper.

International Conferences

- > **Prunet T.**, Absi N., Cattaruzza D., *Surrogate move evaluation for the joint order batching and picker routing problem*, 1st Workshop on Warehouse Management and Logistics 2024, Lille, France.
- > **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

- > Bouvier L., **Prunet T.**, Parmentier A., Leclère V., *Minimizing the empirical risk in contextual stochastic optimization : A primal-dual algorithm*, ROADEF 2025, Marne la Vallée, France.
- > **Prunet T.**, Absi N., Cattaruzza D., *Surrogate move evaluation for a large class of order picking problems*, Workshop of early-career researchers in OR and ML, 2025, Marne la Vallée, France.
- > Bouvier L., **Prunet T.**, Parmentier A., Leclère V., *Contextual combinatorial stochastic optimization and empirical risk minimization*, Workshop of early-career researchers in OR and ML, 2025, Marne la Vallée, France.
- > **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

- > **ROADEF 2025** : Organizing committee.
- > **Workshop of early-career researchers in OR and ML** : Organizer - around 20 participants.
- > **1st Workshop on Warehousing Management and Logistics** : Organizer - around 35 participants from 7 countries.
- > **Session organizer for the conferences** : ROADEF 2023, ROADEF 2024, ROADEF 2025
- > **Reviewer for the journals** : EJOR, EJTL, OR Spectrum, 4OR
- > **Reviewer for the conferences** : ROADEF 2022, ROADEF 2023, ROADEF 2024

TEACHING

Ecole des Ponts

Fall 2024 Operations Research (30h)

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)