Minh Tam Tran, Ph.D. Candidate *(updated December 2023)*

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🌐 https://mathnimnart.github.io/

Employment History

1/2024 – 12/2024	🔖 **Postdoctoral Researcher,** Centrale Supélec - Université Paris-Saclay, France.
9/2023 – 8/2024	🔖 **Adjunct Lecturer,** ESSCA Business School, France.
10/2020 – 8/2023	🔖 **Lecturer & Research Assistant ,** EMLYON Business School, France.
11/2019 – 9/2020	🔖 **Quantitative Researcher,** Allianz, France.
6/2019 – 10/2019	🔖 **Data Scientist,** GroupM, France.

Education

10/2020 – 8/2023	🔖 **Ph.D., National Institute of Applied Sciences of Lyon (INSA Lyon), France** in Industrial Engineering, Operational Research, and Management Science. Working contract with EMLYON Business School. Thesis title: *Blur the line between Online and Offline: End-to-End Flow Management Perspective.* Supervisors: Prof. Yacine Rekik, ESCP Business School, France & Prof. Khaled Hadj-Hamou, INSA Lyon, France.
9/2019 – 9/2020	🔖 **M.Sc. Applied Mathematics, Paris Dauphine University, Paris Sciences et Lettres University (PSL University), France.** Master's Year 2 program in Statistical and Financial Engineering, Data Science. Apprenticeship contract with Allianz France. Thesis title: *Technical Provision and Interest Rate in International Financial Reporting Standards - IFRS 17.*
9/2018 – 8/2019	🔖 **M.Sc. Applied Mathematics, Paris Dauphine University, Paris Sciences et Lettres University (PSL University), France.** Master's Year 2 program in Mathematics of Insurance, Economics, and Finance. Scholarship from the Paris Mathematical Sciences Foundation (FSMP) in Paris Graduate School of Mathematics (PGSM) program. Thesis title: *Analyzing, Forecasting, and Optimal Bidding in Display Advertising.*
9/2017 – 8/2018	🔖 **M.Sc. Advanced Mathematics, Ecole Normale Supérieure de Paris (ENS Ulm), Paris Sciences et Lettres University (PSL University), France.** Master's Year 1 program in Mathematics. Scholarship from the Paris Mathematical Sciences Foundation (FSMP) in Paris Graduate School of Mathematics (PGSM) program.
9/2013 – 8/2017	🔖 **B.Sc. Mathematics, University of Science, Vietnam National University, Hanoi (VNU-HUS).** *First Class Honours,* Talented program in Mathematics. Scholarship from Vietnam National University, Hanoi & National Program for the Development of Mathematics until 2020, Vietnam Institute for Advanced Study in Mathematics (VIASM).
9/2010 – 8/2013	🔖 **High School for Gifted Student (specialized in Mathematics) - University of Science, Vietnam National University, Hanoi (HSGS-HUS-VNU).** *First Class Honours.* Scholarship from Vietnam National University, Hanoi & National Program for the Development of Mathematics until 2020, Vietnam Institute for Advanced Study in Mathematics (VIASM).

Research Interest

- Operational Research & Management Science.
- Decision under Uncertainty using Data-Driven Optimization & Stochastic Optimization.
- Blockchain & Information Sharing in Supply Chain Management.
- Artificial Intelligence and Data-Driven Decision Making.
- On-Demand Transport and Intermodal Mobility for Future Cities.

Working papers in progress

- Optimization under Uncertainty for On-Demand Transport Systems within Large Urban Regions.
- Data-driven and Machine Learning Models for Operational Management.
- Sustainable Supply Chain with Data-Driven, Machine Learning, and AI Applications.
- Blockchain and Technology Adoption in Food Supply Chain Networks.

Research Publications

Journal Articles

2023 — **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. Optimal pricing for dual-channel retailing with stochastic attraction demand model. *International Journal of Production Economics, 109127*. https://doi.org/10.1016/j.ijpe.2023.109127.

Preprints under Review

- **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. *Optimal pricing for a multi-channel stochastic demand with service levels.* 1st revised manuscript submitted to OR Spectrum, June 2023.

Conference Proceedings

2021 — **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2021, August). Pricing Decisions for an Omnichannel Retailing Under Service Level Considerations. In *IFIP International Conference on Advances in Production Management Systems* (pp. 175-185). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-030-85906-0_20.

Conference without Proceedings

2023 — **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2023, November). Pricing strategy for dual-channel retailing using a stochastic attraction-demand model. In *PGMO Days 2023 - Gaspard Monge program for Optimization, Operations Research and their interactions with Data Science.*

- **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2023, August). Pricing strategies for dual channels retailers with stochastic attraction demand model. In *10th Vietnam Mathematical Congress.*

- **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2023, February). A data-driven based approach for newsvendor problem subject to inventory inaccuracy. In *24ème congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision.*

2022 — **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2022, August). Optimal pricing for multi-channel retailing with stochastic attraction demand model. In *21st International Symposium on Inventories.*

- **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2022, February). Optimal pricing for a stochastic omnichannel attraction demand model with target cycle service levels. In *Twenty-second International Working Seminar on Production Economics.*

Research Publications (continued)

- **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2022, February). A chance-constrained optimisation model for the pricing and ordering omnichannel problem. In *23ème congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision.*

2021
- **Tran, M. T.**, Rekik, Y., & Hadj-Hamou, K. (2021, August). Integrated Inventory and Pricing Decisions for an Omnichannel Retailing model under Cycle Service Level. In *15th International Society for Inventory Research Summer Schools - Data-Driven Inventory Management and Modelling.*

Presentations

2023
- PGMO Days 2023 - Gaspard Monge program for Optimization, Operations Research and their interactions with Data Science, EDF Lab Paris-Saclay, Palaiseau, France.
- 10th Vietnam Mathematical Congress, Da Nang, Vietnam.
- 24th annual congress of French Operations Research & Decision Support Society, Rennes, France.

2022
- 21st International Symposium on Inventories, Budapest, Hungary.
- 22nd International Working Seminar on Production Economics, Innsbruck, Austria.
- 23rd annual congress of French Operations Research & Decision Support Society, Lyon, France.

2021
- International Conference on Advances in Production Management Systems, Nantes, France.
- 15th International Society for Inventory Research Summer Schools - Data-Driven Inventory Management and Modelling, Luxembourg.

Teaching

2023 – 2024
- **Quantitative Methods for Finance** course for students in "Programme Grande École (PGE)" and Master of Science programs at ESSCA Business School; **Data Science** course for students in Bachelor of Science program at Paris Dauphine University - PSL University, France.

2022 – 2023
- **Business Statistics** course for students in "Programme Grande École (PGE)" and Master of Science programs at EMLYON Business School, France.

2021 – 2022
- **Operations Management** and **Introduction to Business Statistics and Data Analysis** courses for students in "Programme Grande École (PGE)" and Master of Science programs at EMLYON Business School, France.

2020 – 2021
- **Operations Management** and **Introduction to Statistics** courses for students in "Programme Grande École (PGE)" and Master of Science programs at EMLYON Business School, France.

Skills

Languages
- English: *fluent*; French: *intermediate*; Vietnamese: *native*.

Coding
- Python, SAS, R, SQL, C++, VBA, LaTeX, …

Misc.
- Academic research, teaching, training, LaTeX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

2017–2019   **Scholarship for Master studies**, Paris Mathematical Sciences Foundation in Paris Graduate School Mathematics, for Master's in Applied Mathematics program at Ecole Normale Supérieure de Paris – ENS Ulm and Paris Dauphine University, Paris Sciences et Lettres University (PSL University).

2013-2017   **Scholarship for Bachelor studies**, University of Science, Vietnam National University, Hanoi (VNU-HUS) & National Program for the Development of Mathematics until 2020, Vietnam Institute for Advanced Study in Mathematics (VIASM).

Service

- **Member of academic association:** International Society for Inventory Research; French Operations Research & Decision Support Society; French Society of Automation, Industrial Engineering and Production.
- **Social activity:** Session chair "Artificial Intelligence Based Optimization Techniques for Demand-Driven Manufacturing", International Conference on Advances in Production Management Systems 2021; Session chair "Pricing strategies", PGMO Days 2023 - Gaspard Monge program for Optimization, Operations Research and their interactions with Data Science.
- **Reviewer** for "Applied Mathematical Modelling" journal.

References

Prof. Yacine Rekik
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National Institute of Applied Science of Lyon,
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