

# Dadoun Amine, Ph.D. Student

✉ amine.dadoun@amadeus.com ☎ +33659371981

🐦 @AmineDadoun

🌐 <https://www.eurecom.fr/~dadoun/>

🌐 <http://www.linkedin.com/in/amdadoun>



Curious and eager to learn every day, I am constantly looking for new challenges. I would like to put into practice my expertise on recommender systems in a growing industry to observe its effects and impact on the industry. Passionate about AI, my scientific approach enables me to apply it in a thorough and systematic manner to the real-world problems that I deal with regularly.

## Employment History

- 06/2018 – Present    📌 **Doctoral Researcher. Amadeus IT Group, Nice.**  
Part of the Merchandising Division of the Airline IT entity in Amadeus, the main objective of the PhD is to study the impact of recommender systems on the offer construction and retailing of airline products. Several recommender systems are developed to tackle airline-specific recommendation use cases through the traveler journey.  
Main Technologies: Azure ML, Python, Jupyter, Spark, SQL, Tensorflow, Pytorch.
- 11/2017 – 05/2018    📌 **Data Scientist. Amadeus IT Group, Nice.**  
Consulting Data Science projects for some European airlines are conducted in two topics namely Price Optimization through A/B test techniques and Recommender Systems.  
Main Technologies: Python, Spark, SQL, Sklearn, Java, Tableau.
- 03/2017 – 09/2017    📌 **Data Scientist Intern. Amadeus IT Group, Nice.**  
Develop Deep learning-based recommender systems for ancillary recommendation in the traveler booking flow and integrate the system within Amadeus Merchandizing IT System.  
Main Technologies: Python, Keras, Pandas, Java.

## Education

- 2018 – Present    📌 **Ph.D., Sorbonne University EDITE, Paris.**  
Data Science Laboratory: Eurecom, Sophia Antipolis.  
Thesis title: *Semantic Data-Driven approach for Merchandizing Optimization.*
- 2014 – 2017    📌 **Engineer Diploma, ENSEEIHT, Toulouse.**  
Field of study: *Computer Science and Applied Mathematics.*
- 2012 – 2014    📌 **Lycée Gustave Eiffel, Bordeaux.**  
CPGE: *Mathematics, Physics, Industrial systems, Computer Science.*


## Skills

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| Languages | 📌 Bilingual in French and Arabic & Fluent in English.                                    |
| Coding    | 📌 Python, Spark, Java, R, SQL, $\text{\LaTeX}$ .   |
| Databases | 📌 MySQL, Impala Hadoop.  |
| Misc.     | 📌 Academic research, teaching, consultation, $\text{\LaTeX}$ typesetting and publishing. |


## Research Publications

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### Journal Articles

- 1 Dadoun, A., Defoin-Platel, M., Fiig, T., Landra, C., & Troncy, R. (2021). How recommender systems can transform airline offer construction and retailing. *Journal of Revenue and Pricing Management*.  
 doi:10.1057/s41272-021-00313-2

### Conference Proceedings

- 1 Dadoun, A., Troncy, R., Defoin-Platel, M., & Ayala Solano, G. (2021). Predicting your next trip: A knowledge graph-based multi-task learning approach for travel destination recommendation. In *Recsys '21: Fourteenth acm conference on recommender systems*, Amsterdam: Association for Computing Machinery.
- 2 Dadoun, A., Troncy, R., Defoin-Platel, M., Petitti, R., & Ayala Solano, G. (2021). Optimizing email marketing campaigns in the airline industry using knowledge graph embeddings. In *Companion proceedings of the 2021 world wide web conference*, Ljubljana, Slovenia: Association for Computing Machinery.
- 3 Dadoun, A., Troncy, R., Ratier, O., & Petitti, R. (2019). Location embeddings for next trip recommendation. In *Companion proceedings of the 2019 world wide web conference* (pp. 896–903).  
 doi:10.1145/3308560.3316535

### Preprint Articles

- 1 Abbas, N., Alghamdi, K., Dadoun, A., Domingue, J., Dumontier, M., Emonet, V., ... Xu, W. (2020). Knowledge graphs evolution and preservation – a technical report from isws 2019. arXiv: 2012.11936 [cs.AI]
- 2 Dadoun, A., Harrando, I., Lisena, P., Reboud, A., & Troncy, R. (2020). Two stages approach for tweet engagement prediction. arXiv: 2008.10419 [cs.LG]
- 3 Dadoun, A., & Troncy, R. (2020). Many-to-one recurrent neural network for session-based recommendation. arXiv: 2008.11136 [cs.LG]