Lucia **Montero Sanchis**

M.Sc. Communication Systems · Specialization in Data Analytics

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EXPERIENCE

Schindler Feb. 2019 - Sep. 2019
Intern and M.Sc. Thesis Student *Lausanne, Switzerland*

- Combined the skills of patent professionals and product specialists to interrelate patents to a taxonomy of elevator systems and components, using a mapping strategy based on Information Processing and NLP.
- Implemented a processing pipeline to extract relevant information from patent documents.

Dathena Jul. 2018 - Sep. 2018
Data Scientist Intern *Singapore*

- Contributed to a clustering and classification pipeline for sensitive documents using ML and deep learning techniques with Python, Scala and Spark.
- Collaborated in the implementation of an Optical Character Recognition pipeline for noisy documents.

Big Data Laboratory, Universidad Pontificia Comillas Jan. 2017 - Jun. 2017
Research Assistant *Madrid, Spain*

- Deployed pipeline using Kafka, Flume and Cassandra as streaming data sources for the analysis of tweets with Spark.
- Prepared distributed programming environment with Docker and Spark for future student projects.
- Tested the capabilities of bluetooth sensors as IoT devices and as an input to the processing pipeline.

Transp-OR, Ecole Polytechnique Federale de Lausanne Jan. 2016 - Jul. 2016
Research Assistant *Lausanne, Switzerland*

- Simulated the Swiss railway train network using an optimization model and performed multivariate statistical analysis to study the effect of cyclic timetables and other factors on passenger satisfaction and economic cost.
- Determined with statistical significance which combinations of factors had the greatest impact on passenger satisfaction.

EDUCATION

Ecole Polytechnique Federale de Lausanne Sep. 2017 - Sep. 2019
M.Sc. Communication Systems with Specialization in Data Analytics *Lausanne, Switzerland*

- Thesis: Technology Mapping and Patent Analytics.
- Semester Project: Analysis of student behavior during collaborative synchronous writing to automatically determine role taking and editing patterns.
- Key courses: Applied Data Analysis, Machine Learning, Deep Learning, Natural Language Processing (NLP), Distributed Information Systems.

Universidad Pontificia Comillas Sep. 2012 - Sep. 2016
B.Sc. Telematics Engineering *Madrid, Spain*

- Thesis: Analysis of External Effects on Cyclicity in Passenger Railway Service.
- Key courses: Computer Networks, Operations Research, Computer Architecture.

Ecole Polytechnique Federale de Lausanne Sep. 2015 - Sep. 2016
Exchange Program in Communication Systems *Lausanne, Switzerland*

- Key courses: Algorithms, Functional Programming, Parallelism and Concurrency, Convex Optimization.

SKILLS AND LANGUAGES

Software	Python, Java, Scala, C
ML	PyTorch, Tensorflow, sklearn
Analytics	Pandas, Matlab, R, SPSS
Misc	Git, HTML, CSS, JS, SQL

Spanish	Native
French	Intermediate, *DELF B1 (2010)*
Japanese	Basic, *JLPT N5 (2010)*