

LLUÍS CARRERAS GONZÁLEZ



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EDUCATION

- **MSc degree in Advanced and Applied Artificial Intelligence (mIA3)**
Universitat de València (UV) 60 ECTS Grade = 8.98
Final thesis: “NLP Applied to the Prediction of Echocardiographic Data”
- **BSc degree + MSc degree in ELECTRONICS ENGINEERING**
Universitat Autònoma de Barcelona (UAB) 346.5 ECTS Grade = 7.74
Final thesis: “Frequency multipliers with Non-Linear Transmission Lines applying the concepts of electromagnetic crystals and solitons”
- **BSc degree + MSc degree in PHYSICS**
Universitat Autònoma de Barcelona (UAB) 310.5 ECTS Grade = 7.30
- Completed 24 out of 60 ECTS of a **MSc degree in DATA SCIENCE**
Universitat Oberta de Catalunya (UOC)
- Completed 144 out of 240 ECTS of a **BSc degree in COMPUTER SCIENCE**
Universitat Oberta de Catalunya (UOC)

PUBLICATIONS

- F. Campabadal, J. Ll. Carreras, E. Cabruja: **Flip-chip packaging of piezoresistive pressure sensors.** *Sensors and Actuators A: Physical*, vol 132(1), pp. 415-419 (2006)
- F. Martín, J.L. Carreras, et al.: **New Electromagnetic Bandgap Nonlinear Coplanar Waveguide.** *Microwave and Optical Technology Letters*, vol 37(6), pp. 397-400 (2003)
- F. Martín, J.L. Carreras, et al.: **Frequency Tuning in Electromagnetic Bandgap Nonlinear Transmission Lines.** *Electronics Letters*, vol. 39(5), pp. 440-442 (2003)

DATA SCIENCE, ARTIFICIAL INTELLIGENCE AND COMPUTER SKILLS

- **Data Science:** Python, SQL, R, Jupyter Notebooks
- **Python Libraries:** scikit-learn, pandas, numpy, scipy, matplotlib, Seaborn, Folium
- **Artificial Intelligence:** Machine Learning, Deep Learning, NLP, Computer Vision, Reinforcement Learning
- **Artificial Intelligence libraries:** TensorFlow, Keras, PyTorch, spaCy, NLTK, Gensim, Hugging Face, OpenCV, RLlib,
- **Data Engineering:** Airbyte, AirFlow, dbt, Snowflake, Superset
- **Databases:** SQL, PostgreSQL
- **Web technologies:** Java, Flask, Javascript, HTML, CSS
- **Other technologies and skills:** Scrum, Agile, Mode Analytics, Git, Trello, Jira, Kanban

LANGUAGES

- **Spanish:** Mother language
- **Catalan:** Mother language
- **English:** Advanced level - **TOEFL** (iBT): 99/120
Equivalent to **C1** on **CEFR** (Common European Framework of Reference)

WORK EXPERIENCE

- 2019- **Sr. Data Scientist. Cooltra. Barcelona:**
- Data Science Machine Learning and Data Engineering, following the scientific methodology.
 - Developing predictive models based in Machine Learning and Artificial Intelligence.
 - Managing all issues related with Data Science and Machine Learning.
 - Performing data-driven reports and analysis for all the departments in Cooltra,
 - Developing all the tasks related with Business Intelligence, with the objective to improve the business decision-making following a data-driven methodology.
 - Ensuring the data consistency throughout the business.
 - Thorough usage of SQL queries and data cleaning and visualization with Python, in the Mode Analytics framework and PostgreSQL.
 - Data Science for Marketing Analytics: costumer segmentation, A/B tests, reporting and visualization, analysis of promotions, customer behavior predictions.
 - Building of a Data Stack: Airbyte, Airflow, Snowflake, dbt and Superset.
 - Selection and mentoring of new staff in de Data Science team.
- 2017-2017 **Data Scientist. Mabrian. Menorca:**
- Analysis, development and improvement of Data Science algorithms and scripts.
 - Experience in: Python, Django, PostgreSQL, Machine Learning, Linux and Git.
- 2010-2018 **Safety Engineer and Safety Manager. Menorca airport:**
- Management of the safety and security in the airport.
 - Deployment of new technologies in the field of Airport Security.
 - Organization and management of emergency drills.
 - Study and implementation of technical reports.
- 2005-2010 **Air Traffic Safety Electronics Personnel (ATSEP). Menorca and Barcelona airports:**
- Maintenance, supervision and deployment of air traffic safety electronic systems.
- 2004-2004 **Test Engineer. Venture Electronics. Barcelona:**
- Prototype testing of large-format printers.
 - Design and development of test procedures.
 - Test programming (TCL/TK, Visual Basic and Excel macros).
- 2001-2004 **Researcher and Data Analyst. IMB-CNM (Microelectronics Institute of Barcelona):**
- Development of automatized measure setups (Python and TCL/TK programming).
 - Analysis of data gathered in experimental setups.
 - Research on silicon piezo-resistive sensors technology.
 - Development of measurement procedures and technical reports.
- 2001-2001 **Software Developer. Cap Gemini Ernst & Young. Barcelona:**
- Development and test of software applications for IT projects.
 - Programming in Java, Javascript and HTML, with thorough mathematical requirements.