

# Jan Olivetti

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## EDUCATION

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### Columbia University

*M.S. in Computer Science*

New York, NY

Exp Dec 2023

- Relevant Courses: Intro to Databases, Natural Language Processing, Machine Learning

### Universitat Politècnica de Catalunya

*B.S. in Computer Engineering, GPA: 9.6/10.0*

Barcelona, ES

Jun 2022

- Relevant Courses: Artificial Intelligence, Algorithms, Advanced Algorithms

### Universitat Politècnica de Catalunya

*B.S. in Mathematics, GPA: 9.1/10.0*

Barcelona, ES

Jun 2022

- Relevant Courses: Probability, Statistics, Numerical Calculus

## SKILLS

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**Programming languages:** C/C++, Python, Java, Matlab/Octave, SQL, Haskell

**Frameworks:** PyTorch, JAX

**Other Tools:** Github, cloud computing, UNIX

**Languages:** Spanish, Italian, Catalan

## RESEARCH EXPERIENCE

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### Massachusetts Institute of Technology

Boston, MA

*Research Assistant Mentorship*

Sep 2021 – Jun 2022

- Developed model with 92% accuracy for molecular property prediction with cutting-edge meta-learning techniques.
- Proposed heuristics for a planner to plan optimal sequences of experiments, obtaining gains of 2%.
- Trained AlphaZero using meta-learning to generate an effective planner automatically.
- Wrote a thesis and presented findings to a committee of PhD students.

### Massachusetts Institute of Technology

Boston, MA

*Mentorship at Research Science Institute*

Jun 2016 – Aug 2016

- Analyzed US Forest Service dataset of forests to track evolution over time.
- Researched decision tree regression models for forest evolution prediction problem.
- Earned a Top 10 Presentation Prize out of 80 students.

## AWARDS

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### La Caixa Postgraduate Fellowship Abroad 2021

*Scholarship that fully funds two years of studies and research in a lab of my choosing.*

### ICPC World Finals 2019 - 21<sup>st</sup> place

*International phase of a programming competition for university students with 20,000 competing teams in all its stages.*

### Southwestern European Regional Contest 2017, 2018, 2019 and 2020

*Regional phase of ICPC with around 100 competing teams. Obtained a medal in each edition (3 bronze, 1 silver).*

### Google Code Jam – Top 1000 in 2017, 2018, 2019 and 2020

### Google Hash Code – Top 80 in 2021

## PROJECTS

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### HackUPC 2019

Oct 2019

- Built and presented a data science project in teams of 3, using convolutional neural networks and data from 150 signatures, to differentiate between real and fake signatures based on user movements.

### HackUPC 2017

Oct 2017

- Built and presented a web application in teams of 3, where users choose a list of European cities, and it automatically chooses order with cheapest combination of flights required with SkyScanner API.