NACHO NAVARRO

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EDUCATION

University of Pennsylvania *August 2019 - Present*
Master of Science in Engineering in Computer & Information Science

Imperial College London *September 2014 - June 2018*
Joint Mathematics and Computer Science *First Class Honours*
Bachelor and Master of Engineering

WORK EXPERIENCE

J.P. Morgan August 2018 - March 2019
Software Engineer

· Worked with an architecture team creating a data reservoir for the firm.

IMSK (part time) Summer 2017
Web developer

· Sole application and web developer (Django) for the European Musculoeskeletical Institute.

J.P. Morgan (internship) June 2017 - September 2017
Technology Analyst

· Heavily research-focused internship that relied on studying the literature on Data Science and Machine Learning to implement anomaly detection algorithms.

Imperial College September 2016 - April 2017
Undergraduate Teaching Assistant

· TA for first year students. Met weekly for a one-hour session, and marked lab exercises.

Eduvap September 2016 - April 2017
Web developer

· Web developer for an application that connects students to private tutors. Later extended this project to support an iOS app.

RESEARCH & PROJECTS

Master's Thesis 2017-2018
On Garbled Circuits

· An investigation on current optimizations of Garbled Circuits (crypto). Supervisor: Dr. Mahdi Cheraghchi

Individual Research Paper 2017
A Divisibility Problem in the McKay Conjecture

· Investigated and proposed three conjectures on a variation of a well-known problem in representation theory, the McKay Conjecture. (https://arxiv.org/abs/1711.00642)

Group Research Project 2015-2016
A Proof Assistant in Category Theory Using String Diagrams

· String diagrams are a two-dimensional notation for expressions in category theory. We showed an interactive proof assistant that relies on these to visually embed some of the laws of category theory, resulting in intuitive and elegant proofs. Supervisors: Prof. Susan Eisenbach, Dr. Tony Field

INTERESTS AND SKILLS

Proficient Programming Languages	Java, Python, Swift, JavaScript
Frameworks and other	Django, iOS development
Interests	Big Data, Data Science, Cryptography

ACADEMIC ACHIEVEMENTS

La Caixa Fellowship, 2018: full ride (tuition + stipend) for Master's at the University of Pennsylvania

Computing Entrance Scholarship, Imperial College London

Stand-out third year group project, Imperial College London

Engineering Dean's List, 2nd Year, Imperial College London