



Lucía Rodrigo Insausti

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I have a PhD in Nanotechnology about theoretical simulations of graphene systems. I have a very solid programming basis and data analysis skills. Now I am seeking a career change towards bioinformatics and biostatistics. I am specially interested in their application in genomics and clinical research and how the latest machine learning techniques can help in the analysis of these huge data sets.

Education

Universidad Autónoma de Madrid

PHD IN CONDENSED MATTER PHYSICS AND NANOTECHNOLOGY, CUM LAUDE

Madrid, Spain

Sep. 2010 – Apr. 2016

- Thesis entitled *Characterizing Real-life Graphene through the Latest First-Principles Methodological Developments*
- 8 scientific papers published, 8 contributed talks + 3 poster presentations in different international conferences

Universidad Autónoma de Madrid

MASTER'S DEGREE IN CONDENSED MATTER PHYSICS AND NANOTECHNOLOGY

Madrid, Spain

Sep. 2009 – Jun. 2010

Universidad Autónoma de Madrid

BACHELOR'S DEGREE IN PHYSICS

Madrid, Spain

Sep. 2004 – Jun. 2009

Experience

Pivotal S. L.

BIostatistician

Madrid, Spain

2017 – Present

- Responsible for planning and developing Statistical Analysis Plans and Interim/Final Statistical Reports

Universidad Autónoma de Madrid

ASSISTANT PROFESSOR

Madrid, Spain

2014 – 2016

- Ayudante Universidad LOU (020020060) merit-based contract (120 hours of teaching)

Universidad Autónoma de Madrid

PREDOCTORAL RESEARCHER

Madrid, Spain

2010 – 2014

- Predoctoral contracts funded by research projects (CSD2010-00024, MAT2011-23627, S2009-MAT-1467, MAT2008-02939-E)
- 20 hours of teaching per academic year (for a total of 80 hours)

Research stays abroad

Lawrence Berkeley National Laboratory (LBNL)

MATERIALS SCIENCES DIVISION (PROFESSOR MIQUEL SALMERON)

California, USA

10 weeks

Aalto University

DEPARTMENT OF APPLIED PHYSICS (PROFESSOR HANNES JÓNSSON)

Helsinki, Finland

5 weeks

Courses and Certifications

Mathematical Biostatistics

JOHNS HOPKINS UNIVERSITY MOOC

Maryland, USA

16 Jan. – 20 Mar. 2017

- Introduction, Bayes' rule, confidence intervals, bootstrapping, hypothesis testing, discrete data settings, specific techniques

Machine Learning

STANFORD UNIVERSITY MOOC

California, USA

20 Aug. – 13 Nov. 2016

- Supervised and unsupervised learning, special applications and topics, advice on building a machine learning system

Understanding Clinical Research: Behind the Statistics

UNIVERSITY OF CAPE TOWN MOOC

Cape Town, South Africa

18 Jun. – 30 Jul. 2016

- Study types and data description, hypothesis testing and confidence levels, appropriate test selection, analysis of the accuracy

Skills

Programming Fortran, C, Matlab/Octave, Python, R, SAS, Shell scripting, \LaTeX , experience with HPC systems

Languages Spanish (native), English (fluent), French (beginner)