

# PABLO LECHÓN ALONSO

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## EDUCATION

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**MSc Computational Methods for Ecology and Evolution (90 ECTS<sup>1</sup>)** *Sep 2019 - Sep 2020*  
*Imperial College London (ICL)*

- Relevant courses: Model Selection, GIS with R, High Performance Computing, Bayesian Statistics, Ecological Modelling

**BS in Physics (50 ECTS, GPA<sup>2</sup>: 3.7)** *Aug 2018 - May 2019*  
*University of North Carolina at Chapel Hill (UNC).*

- Relevant courses: Research in Astronomy (Final thesis) and Observational Astronomy (Graduate level)

**BS in Physics (225 ECTS, AG<sup>3</sup>: 8.1)** *Sep2014 - Jun 2018*  
*Universidad Complutense de Madrid (UCM).*

- Relevant courses: Research in Astronomy, Computational Physics, Statistics and Data Analysis, Astrophysics, Extragalactic Astrophysics.

**High school diploma in Science and Technology (GCE)(AG: 9.59).** *Sep 2012 - Jun 2014*  
*Colegio ESTUDIO .*

- University entrance grade: 13.1/14

## RESEARCH PROJECTS

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**Binning Code for 2D Spectroscopy.** **Research supervisor: Dr. Sheila Kannappan (UNC)**  
I wrote code to improve the signal-to-noise ratio (S/N) of spectroscopic data from the RESOLVE survey.

**Star Forming Galaxies.** **Research supervisor: Dr. Jesús Gallego Maestro (UCM)**  
I used machine learning to detect the [O III] line at 4363 Å of hundreds of thousands of spectra from the Sloan Digital Sky Survey (SDSS) to determine underpinnings of galaxy evolution.

**Metabolic Theory of Ecology** **Research supervisor: Dr. Samraat Pawar (ICL)**  
Currently contributing to develop theory on the effects of climate change (temperature) in ecosystems.

## ACADEMIC ACHIEVEMENTS

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Excellence Award Scholarship (Ministry of Education Government of Spain) *2014-2015*

Trans Atlantic Science Student Exchange Program (TASSEP) Scholarship (UCM) *2018-2019*

Collaboration Scholarship (UCM) *2019*

## PROFESSIONAL SKILLS

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**Programming Languages** Python, R, C, Bash, VimScript, Matlab, Maple, SQL

**Software & Tools** Latex, Github, Vim, Emacs, MacOS, Linux

**Languages** Spanish (native), English (TOEFL iBT: 108/120).

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<sup>1</sup>2 ECTS = 1 credit hours

<sup>2</sup>GPA = Grade Point Average (4 point scale)

<sup>3</sup>AG = Average Grade (10 point scale)

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## EXTRA-CIRRICULAR

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- Conference of Undergraduate Research (CUR) at UNC. Poster presentation *2019*
- Observation nights with SOAR telescope in Chile at the UNC remote observatory. *2019*
- Preprints: how they can improve scientific publishing (PCI Ecology) *2019*
- UCM Science Week. Run workshops on the muon detector *2017*
- Completed a Stanford online course on Machine Learning. *2017*
- Completed a UCM online course on Introduction to python programming. *2018*
- "Challenges in life sciences-Redefining Disease" —A series of three meetings and one workshop. *2017*
- National Center of Biotechnology (CNB) Open Day —Attended two seminars on systems biology and macromolecular structures. *2017*
- Student Union Vicepresident Imperial College London (Silwood Park Campus) *2019*
- Climbing Society President Imperial College London *2019*
- Gender Equality Workshops at UCM *2017-2018*
  - "Detection and prevention of male violence in the university"
  - "Gender Equality and new social roles of men and women"
  - "Reflections on our masculinities. A critical analysis and healthy alternatives"
- Active member of INAKWA —an NGO that fights against gender inequality in Africa through education. *2019*
- Active member of Extinction Rebellion Spain —a socio-political movement which uses nonviolent resistance to protest against climate breakdown, biodiversity loss, and the risk of human extinction and ecological collapse. *2019*

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## HOBBIES

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- Ultimate Frisbee
- Acoustic guitar
- Climbing
- Origami