

PABLO LECHÓN ALONSO

plechon@ucm.es ◇ C/Cáceres 36 ◇ Pozuelo de Alarcón ◇ Madrid ◇ 28223

EDUCATION

MSc Computational Methods for Ecology and Evolution (90 ECTS¹) *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, GPA²: 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, AG³: 8.1) *Sep 2014 - 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

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.

Microbial Community Coalescence Research supervisor: Dr. Samraat Pawar (ICL)
I quantified the effect of microbial pairwise interactions, such as competition and facilitation, through a community-level cohesion measure, to the outcome of the mixing of entire microbial communities.

ACADEMIC ACHIEVEMENTS

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

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).

¹2 ECTS = 1 credit hours

²GPA = Grade Point Average (4 point scale)

³AG = Average Grade (10 point scale)

EXTRA-CIRRICULAR

- 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*

HOBBIES

- Ultimate Frisbee
- Acoustic guitar
- Climbing
- Origami