

# PABLO LECHÓN ALONSO

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

## EDUCATION

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**MSc Computational Methods for Ecology and Evolution (90 ECTS<sup>1</sup>, Overall Mark: 84.00)**  
*Sep 2019 - Sep 2020 — Imperial College London (ICL)*

**BS in Physics (255 ECTS, AG<sup>2</sup>: 8.16)**  
*Aug 2018 - May 2019 — University of North Carolina at Chapel Hill (UNC).*  
*Sep 2014 - Jun 2018 — Universidad Complutense de Madrid (UCM).*

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

## RESEARCH PROJECTS

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**Microbial Community Coalescence.** 2020-2021  
*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.

**Star Forming Galaxies.** 2019  
*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.

**Binning Code for 2D Spectroscopy.** 2018-2019  
*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.

## ACADEMIC ACHIEVEMENTS

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Fellowship Award for graduate studies at University of Chicago 2020

Collaboration Scholarship (UCM) 2019

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

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

## PROFESIONAL EXPERIENCE

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**Graduate Teaching Assistant and Research Assistant**  
*Oct 2020 - March 2021 — Departament of Life Sciences, ICL*

## PROFESSIONAL SKILLS

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<b>Programming Languages</b>	Python, R, C, Bash, VimScript, Matlab, Maple, SQL
<b>Software &amp; Tools</b>	Latex, Github, Vim, Emacs, MacOS, Linux
<b>Languages</b>	Spanish (native), English (TOEFL iBT: 108/120).

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

<sup>2</sup>AG = Average Grade (10 point scale)

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## EXTRA-CIRRICULAR

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- Winter School on Quantitative Systems Biology: Quantitative Approaches in Ecosystem Ecology at ICTP *2020*
- 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