

# PABLO LECHÓN ALONSO

plechon@uchicago.edu ◊ Department of Ecology and Evolution ◊ University of Chicago

## EDUCATION

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**PhD Ecology and Evolution (Supervisor: Dr. Stefano Allesina.)**

*March 2021 - present — University of Chicago*

**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 .*

## SELECTED PUBLICATIONS AND RESEARCH PROJECTS

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**The role of competition versus cooperation in microbial community coalescence.**

*Pablo Lechón-Alonso, Jacob Cook, Tom Clegg, Thomas P. Smith, Samraat Pawar*

DOI: <https://doi.org/10.1101/2021.04.18.440290> (under review in PLoS Computational Biology)

**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.

Full list of project samples: [https://github.com/pablolich/CV/tree/master/project\\_samples](https://github.com/pablolich/CV/tree/master/project_samples)

## 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 — Department of Life Sciences, ICL*

## 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>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