Fernando Pedraza Pérez

CONTACT

Masters Student
Department of Life Sciences
Silwood Park
Imperial College London
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RESEARCH INTERESTS

Community Dynamics; Computational Biology; Evolution of Complex Systems; Interaction Networks; Population Ecology; Species Coexistence; Theoretical Ecology.

EDUCATION

Imperial College London, London, UK

M.S., Computational Methods in Ecology and Evolution, September 2018

- *Graduated with High Merit*
- Thesis Topic: *Stability of bacterial communities*
- Adviser: Professor Tim Barraclough
- Area of Study: Community Ecology

Universidad Nacional Autónoma de México, Ciudad de México, MX

B.S., Biology, August 2016

- *Graduated with Honors*
- Thesis Topic: *Plant C-S-R life strategies*
- Adviser: Professor Carlos Martorell
- Area of Study: Plant Ecology

Stanford University, Stanford, USA

Summer Session, Visiting International Student, June 2015 to August 2015

- Completed Courses:
  - Calculus
  - Truth, Proof and Probability
  - Data Mining

AWARDS

William-Harvey Prize for the highest overall mark in my masters program cohort.

REFEREED JOURNAL PUBLICATIONS

[1] Martorell, C., Zepeda, V., Martínez-Blancas, A., García-Meza, D. and F. Pedraza. A diversity world record in a grassland at Oaxaca, México. *Botanical Sciences*. 95(1):1–7. 2017. doi:10.17129/botsci.689

SUBMITTED JOURNAL PUBLICATIONS

[2] Pedraza, F., and C. Martorell. Allocating species in Grime's strategy space: an alternative to trait-based approaches. *Journal of Plant Ecology*. 2018. Submitted.

[3] Pedraza, F., García-Meza, D., Tovar, H., and C. Martorell. Determining which mechanisms underlie plant-plant facilitation in páramos and their relative importance. *Journal of Alpine Botany*. 2018. Submitted.

PAPERS IN PREPARATION

[4] Pedraza, F., and C. Martorell. Revisiting C-S-R theory: refutability and conceptual shortcomings.

PROFESSIONAL EXPERIENCE

Universidad Nacional Autónoma de México, CDMX, MX

Research Assistant **September 2015 to September 2017**

- Supervisor: Professor Carlos Martorell
- Perform statistical and mathematical modelling of plant ecological data, with focus on the effect of abiotic stressors on plant performance.
- Write manuscripts on relevant findings.
- Assist students in fieldwork.

Research Assistant **August 2014 to December 2014**

- Supervisor: Professor Julio Morán Andrade
- Perform molecular biology assays and cell culture techniques.

Skills

Computer Programming:
- Python, R, UNIX shell scripting

Version Control Management:
- DVCS (Git)

Productivity Applications:
- TEX (LATEX, BIBTEX), productivity packages for Windows and OS X platforms

Operating Systems:
- Microsoft Windows family, Apple OS X, Linux/UNIX

Languages
- Fluent in English and Spanish