Matias Bettera Marcat Residence Cordoba ResumeOnline Resume Online **Physicist** LinkedIn in sneas GitHub sneas Last update: January 16, 2024 Mobile +31645223717 Up-to-date version of CV is available at https://mbetteram.github.io/online-resume Email <u>bettera.marcat@gmail.com</u> Bash/Shell Fortran gnuplot Python numpy scripting scikitmatplotlib seaborn jupyter Git/Github tensorflow learn SQL ssh

English poet, playwright and actor, widely regarded as the greatest writer in the English language and the world's pre-eminent dramatist. Often called England's national poet and the "Bard of Avon". My extant work is including collaborations, consist of approximately 38 plays, 154 sonnets, two long narrative poems and a few other verses, some of uncertain authorship.

Professional Experience

Mar 2023 - Present

Proffessor

<u>Universidad Empresarial Siglo 21</u> is a bussiness oriented private university. I am proffessor of theoretical and poblem clases of many mathematics courses, statcis and physics.

- Distance courses (two months period): Physics, Statics, Mathematical Analisys, Algebra. - Presential intensive courses (two months period): Mathematical Analisys, Statistics II. -__ Presential courses (four months period): Mathematical Analisys.

May 2023 - Sep 2023

Monitoring teacher

My role at <u>Data science diploma</u>, <u>at FAMAF-UNC</u> consisted in the monitoring, advising and evaluation of assignments, of four groups of four people each.



Mar 2022 - Present, Mar 2016 - Jul 2016

Lecturer _(Profesor Ayudante de Priemra.)_

Lecturer for problem classes. Evaluation of midterm and final examns.

- 2nd sem 23 Thermodynamics and Statistical Mechanics II and Modern Physics I
- 1st sem 23 Thermodynamics and Statistical Mechanics I and Physics 4 (Modern Physics)
- 2nd sem 22 General Physics III (Electricity and Magnetism).
- 1st sem 22 Thermodynamics and Statistical Mechanics I.
- 1st sem 16 General Physics IV (Waves and Optics).

Lecturer _(Profesor Ayudante B D.S.)_

Lecturer for problem classes. Evaluation of midterm and final examns.

- Feb 22 Admission and introductory course.
- 2nd sem. 22 Mechanics
- 1st sem. 22 Admission and introductory course.

Apr 2014 - Feb 2017

Research

Research fellowship, granted by CONICET. (Beca Interna Doctoral de CONICET)

Research on active matter, particularly sperm dynamics in confined environments, with simulations and experimental data analysis.

(Investigación sobre materia activa, en particular dinámica de espermátozoides en ambientes confinados, con simulaciones y análisis de datos experimentales.)



Aug 2014 - Jul 2015, Aug 2012 - Jul 2013

Student assistant _(Alumno Ayudante de Segunda D.S.)_

Student assistant for problem classes. - 1st sem 15 Electromagnetism I - 2nd sem 14 General Physics I (Introduction to Mechanics) - 1st sem 13 Mechanics - 2nd sem 12 Electromagnetism I

Education

Data Science and its applications diploma (FaMAF, UNC) [2020]

PhD in Physics, research on Dynamics of microconfined swimmers. Mathematichs, Astronomy, Physics and Computer Science school, UNC, AR. (Doctorado en Físca. FaMAF, UNC. Investigación: Dinámica de nadadores microconfinados, FaMAF, UNC). [2016 - Present]
PhD Courses: Numerical Methods in Astrophysics, Computational Physics, Fluid Mechanics, Topics in Mathematical Biology, Introduction to LAMMPS code.

B.S. in Physics, Final grad work: Simultaneous uptake model of water and nutrients by crop roots. Physics department, UNRC, AR. (Licenciatura en Física, Trabajo Final: Modelo de toma simultánea de agua y nutrientes por raíces de cultivos. UNRC) [2010 - 2016]