

Emiliano Aparicio

Bioengineer

emilianojaparicio@gmail.com | Mendoza, Argentina | Portfolio | LinkedIn

Profile

Bioengineer (PhD candidate) with a background in research, front-end web developer, teacher, and video game designer.

Experience


04/2016 – 08/2025

Professor of Mathematics and Physics, Private Lessons
I provide private tutoring, both in person and virtually, for all subjects in mathematics and physics, at levels ranging from high school through university.

Godoy Cruz,
Mendoza

Calculus II Professor,
University of Mendoza, 2nd-year Engineering
My role involves teaching the theoretical and practical sessions, handling student inquiries, and administering exams for a third of the student body.

Mendoza,
Mendoza

Founder, Oblivion Mechanics
I founded a game design company, where I currently invest my time as a designer, developer, prompt engineer, and administrator for our first project: Univearth 

Front-end Developer, CityHeroes
I worked as a front-end developer for 2 years (React, TypeScript, CSS, Tailwind, Figma, and Storybook). After the first year, I took on semi-senior-level responsibilities.

Doctoral Scholarship, CONICET
I was awarded a doctoral scholarship from CONICET that supported my 6-year research career, resulting in 8 papers published in international journals.

Physics Professor,
University of Mendoza, Kinesiology Pre-university Course
I taught theoretical and practical physics classes and administered exams for the Kinesiology pre-university course over a period of 3 years.

Biomaterials Professor,
University of Mendoza, 4th-Year Bioengineering
For three years, I taught both the theoretical and practical components of the Biomaterials course as an ad-honorem adjunct professor.

English/Spanish Translator, Vatsana Technologies
I worked as a freelance translator for 1.5 years, translating written content from English to Spanish for a company in India.

Education

06/2022 – 09/2022	Full Stack Web Developer, Henry I am a graduate of the "Henry" Bootcamp (+800 hours over 4 months) and have served on their team as a Teaching Assistant (TA).	
04/2016 – 03/2022	PhD in Engineering, University of Mendoza PhD Candidate in Engineering (Materials), specializing in computational simulations. I have 8 publications on atomic-scale calculations, including the development of software for computational analysis.	Mendoza, Argentina
03/2010 – 03/2016	Bioengineer, University of Mendoza I graduated as a Bioengineer from the University of Mendoza, where I was a National Standard-Bearer 2014. I was also awarded a gold medal and the prize for the best engineering graduate by the National Academy of Engineering.	Mendoza, Argentina

Languages

Spanish








Native

English

Advanced level (C2): EFSET

<https://www.efset.org/cert/e5Sioa>

Publications

2024	How crack twisting in bouligand structures lead to damage delocalization and toughening, <i>Extreme Mechanics Letters</i> https://doi.org/10.1016/j.eml.202.102190 
2023	Nanoporous Amorphous Carbon with Exceptional Ultra-High Strength, <i>Nanomaterials</i> https://doi.org/10.3390/nano1308129 
2022	Inducing a topological transition in graphene nanoribbon superlattices by external strain, <i>Royal Society of Chemistry</i> https://doi.org/10.1039/D2CP00038E 
2021	Strain and Stress Distribution of Bulk Metallic Glasses at High Strain Rate, <i>Mecánica Computacional</i> http://venus.ceride.gov.ar/ojs/index.php/mc/article/view/6218 
2020	Simulated mechanical properties of finite-size graphene nanoribbons, <i>IOPScience</i> https://doi.org/10.1088/1361-6528/abc036 
2020	FoamExplorer: Automated measurement of ligaments and voids for atomistic systems, <i>Elsevier</i> https://doi.org/10.1016/j.commatsci.2020.10992 
2018	High strain-rate loading of nanofoams, <i>APS March Meeting Abstracts</i> https://ui.adsabs.harvard.edu/abs/2018APS..MARP38007B/abstract 
2018	Mechanical properties of Au foams under nanoindentation, <i>Elsevier</i> https://doi.org/10.1016/j.commatsci.2018.02.019 