

Alina García Orozco

BIOMEDICAL ENGINEER

Contact Info

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Profile

I specialize in **Scientific Computation**, particularly applied to biomedical systems. I also have strong interests in the methodology and ethics of Medicine, with a focus on **Trans Health** and **Psychiatry**. My objective, first and foremost, is to contribute to **Research** in these areas. I wish to apply new technological and theoretical tools to improve the quality of healthcare.

Computer Skills

Coding: MATLAB, Python, Julia, C, C#, PHP, Shell

Collaboration: Trello, Teams, Git

General Software: MS Office, Google Workspace, SolidWorks, Unity, Acrobat

Data management: MySQL, REDCap Stata, SPSS

Modelling & simulation: Simulink, NAMD, Amber, LTspice, Keysight's ADS, Ansys, CPLEX

Misc.: Search Engines, Fast typing, Memes, LaTeX

General Skills

- Adaptable & quick learner
- Analytical thinking, modeling & simulations
- Skill development & teaching
- Gamification, eLearning
- Game Design (Mechanics + Narrative)
- Writing, Editing, Translation
- Literature reviews & scientific writing
- Teamwork, empathetic, conflict resolution
- Project management, organization

Languages

Spanish(C2), English(C2), Catalan(A2), French(B1), Japanese(A1)

Education

2021-2025	MASTER'S Engineering Physics (<i>unfinished</i>)	Universitat Politècnica de Catalunya (UPC) - Barcelona, Spain
2025-2026	MASTER'S Philosophy & Contemporary Debates on Arts and Technology (<i>ongoing</i>)	La Salle BCN, URL - Barcelona, Spain
2024-2025	POSTGRADUATE Clinical Bioethics (<i>ongoing</i>)	Institut Borja de Bioètica, URL - Barcelona, Spain
2017-2021	BACHELOR'S Biomedical Engineering	Universitat Politècnica de Catalunya (UPC) - Barcelona, Spain

Publications

2022	A FEASIBILITY STUDY TO ASSESS THE EFFECTIVENESS OF MUVITY: A TELEREHABILITATION SYSTEM FOR CHRONIC POST-STROKE SUBJECTS Available online	Journal of Stroke and Cerebrovascular Diseases
2021	DESIGN AND DEVELOPMENT OF BIOMEDICAL APPLICATIONS FOR POST-STROKE REHABILITATION SUBJECTS Available online	III Jornada de recerca EGE-UPC - 2021
2021	TELEREHABILITATION OF POST-STROKE MOTOR IMPAIRMENT Available online	XXXIX Congreso Anual de la Sociedad Española de Ingeniería Biomédica - 2021

Talks

2021	MOTOR IMPAIRMENT TELEREHABILITATION	XXIX CASEIB FENIN Awards
2023	MUVITY, A TELEREHABILITATION SYSTEM	8th XPATIENT Barcelona Congress




Work Experience




2025	LA SALLE BCN • Evaluated, prioritized and classified incoming tickets. • Facilitated IT support for low level issues.	HelpDesk Technician
2023-2024	MUVITY • Managed the service's Database. • Gave a short lecture to Master's students about the Muvity App.	Software Developer
2021-2022	LABORATORI D'APLICACIONS MULTIMÈDIA (LAM) • Processed and analyzed motion capture data. • Contributed to the writing of a peer-reviewed paper.	Research Technician
2021-2023	FREELANCE • Taught students at middle-school and high-school level.	Physics and Mathematics Tutor
2020	EXREGNUM PUBLISHING • Translated the game mechanics chapters of the French tabletop role-playing game " <i>Knight, au cœur des ténèbres.</i> "	Freelance Translator
2019	INSTITUT DE DIAGNÒSTIC PER LA IMATGE (IDI) • Adjusted MRI image processing pipelines to use new version of software packages. Applied pipeline to a cohort to search for potential diagnostic markers of focal epilepsy.	Research Intern

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SPECULATIVE BIOETHICIST

Work References –

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 jordi.torner@upc.edu

Honours

- Distinctions (*Matricula d'Honor*) during Bachelor's: Mechanical Systems, Modeling & Control of Biomedical Systems, Bachelor's Thesis (TFG)
- Distinctions (*Matricula d'Honor*) during Master's: Critical Phenomena & Complexity, Surface Engineering & Microdevices, Atomic & Molecular Physics, Numerical Methods for continuum Systems, Complexity in Biological Systems, Machine Learning with Neural Networks
- Selected to represent UPC at the 2021 CASEIB FENIN Awards

Volunteering

Culture and Leisure: General collaborator and Lead of the TCG branch at ACES W&W(2018-2022), Collaborator at Espai Trans Barcelona(2025)

Activism: Member at Trans*Forma la Salut(2025), Partner at PRISMAciencia(2025)

Hobbies

[Reading](#), [Writing](#), TTRPGs, Videogames, Videogame Lore, Yoga, Cats, Group Discussions, Learning Languages, Needlessly worrying about things

Further Training and Education

Accredited Programs

ISGlobal - Advanced Course on Biostatistics and Fundamentals of Epidemiology
Ateneu Sant Pacià - Theory of Knowledge(Autumn 2024-2025)
School of Materialist Research - Spring 2025 Integrated Credit Program
CEDE Nayarit: Sabiduría AaP - Ethics of Animal Culture

Audited University Courses

Death by Shelly Kagan(OYC 2007); **Sanderdon's Writing Sci-Fi & Fantasy**(BYU 2016); **Philosophy of Science & Technology**(UB 2022-2023); **Foundations of Philosophy of Science**(UB 2022-2023 & 2023-2024); **Philosophy of Language & Mind**(UB 2024-2025, only the first half); **Bioethics of Human Reproduction, Gender Dysphoria & Transsexuality**(IBB 2023-2025)

Reading Groups

LOGOS Philosophy of Science RG(2022-2023 & 2023-2024); **LOGOS Philosophy of Videogames RG**(2023-2024); **Urbino-Valparaíso Philosophy of Physics RG**(2024); **International Philosophy of Medicine RG**(2024-2025); **Functions in Philosophy Network RG**(2025); **ISE Harbinger #3 RG**(2025); **UNAM Philosophy of Science RG**(2025); **AHG RG**(2025); **Measurement Heretics RG**(2025); **Frank Garret's Philosophy SG**(2025)

MOOCs

| **FutureLearn** - Start Writing Fiction; Logic: the Language of Truth; Antimicrobial Databases & Genotype Prediction | **edX** - Semantics of First-Order Logic | **OpenLearn** - Introduction to Philosophy of Religion; Language & Thought: Introducing Representation; Attention | **Saylor Academy** - Existentialism | **OPEN vhb** - Spirituality in Healthcare | **Global Health eLearning Center** - Data Quality | **Coursera** - Reality Bites: Introduction to Metaphysics; The Epistemic Quest for Truth: Introduction to Epistemology; Philosophy of Science; Introduction to the Philosophy of Physical Sciences; Miracles of Human Language: an Introduction to Linguistics; What does it mean to Identify as Transgender or Gender Non-Conforming? | **Alison** - Introduction to Psycholinguistics; An Introduction to the Principles of Phenomenology; Understanding Feline Behavior & Psychology; Diploma in Bioinformatics; Diploma in MySQL & Statistics for Data Analysis | **MITx** - Minds & Machines | **TRAIT Barcelona** - Core Module(Spanish); Healthcare Professions Module(Spanish); Legal Professions Module(Spanish); Core Module(Italian); Psychology and Psychiatry Module(Italian) |

Informal Courses

| **Universitat Popular de Granollers** - Theory of Knowledge | **Pluralsight** - Unity VR Fundamentals; Unity C# Scripting Fundamentals | **Udemy** - Master's in Videogame Programming with Unity and C# | **Gaudir UB** - Understanding Science from Philosophy: Historicism; Intelligences: from Bees to Robots | **UNED Barcelona** - Ethics of Transhumanism | **Academia Sapientia Thomistica** - Philosophy of Thomism | **Espai Crisi** - Philosophy and the Feminine | **Fundesplai** - Sexual Diversity | **Institut d'Humanitats de Barcelona** - Against the Empire of Normalcy | **Institut Pere Claver** - Intro to Biopolitics of Mental Health | **Institute of Social Ecology** - Introduction to Dialectical thinking; Anthropology of Freedom |

Seminars, Workshops and Challenges

| **Xsens Biomechanics Challenges** - 2021; 2023 | **LOGOS Workshops** - Scientific Objectivity(2023); Philosophy of Evolution(2023); Objectivity & Evidence(2023); BIAP Workshop on Evidence, Knowledge & Scientific Theory(2023) | **GHTI Training Series** - Developmental Gender Journeys(2024); Medical Support & Assessment(2024); Hormones & Puberty Blockers(2024); Misinformation & Disinformation(2024); Gender Literacy(2024); Comprehensive Biopsychosocial Evaluations(2025); Debunking Myths about Trans Youths(2025); Gender Support Plans(2025); Support Family Acceptance of LGBTQ+ Youth(2025); Avoiding Ethical Pitfalls in Gender Affirming Care(2025); Religious & Spiritual LGBTQ+ Affirming Resources(2025) | **Others** - [Conferences and Misc.](#)