## Lucía Moya-Sans

Researcher Computational Neuroscience Biomedical Engineer Computer Science Engineer

## Contact info -



100383016@alumnos.uc3m.es



Personal Website



LinkedIn

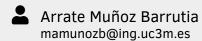


Github



Scholar

## References —







Daniel Sage daniel.sage@epfl.ch

Carsten Marr
carsten.marr@helmholtzmuenchen.de

## Academic Experience ———

2021-2022 Master in Information and Health Engineering UC3M
Taught in English. Thesis in collaboration with EPFL and UC3M

2017-2021 Biomedical Engineering Degree UC3M
Taught in English. Thesis in collaboration with UTDallas

2018- 2023 Informatics Engineering Degree UCЗМ
Taught in English. Started as a minor and currently enrolled in the complete bachelor program

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10/21 - curr. Medical Imaging Research Intern

Deep Learning and Image processing. Working with DeepImageJ,
Bioimage Model Zoo and programming neural networks for image denoising and reconstruction.

O7/20 - curr. Computational Neuroscience Research Un. of Texas at Dallas Brain dynamics and connectivity analysis in Parkinson patients using The Virtual Brain. Also collaborating with Aix-Marseille University (Prof. Viktor Jirsa)

07/20 - 05/21 Deep Learning Research Internship Helmholtz Zentrum München Programming of Convolutional Neural Network for image classification in patients with hereditary hemolytic anemias.

09/20 - 01/21 Neuroimaging Practices Hospital Gregorio Marañón
Preprocessing neuroimaging pipelines programming with nypipe

### $m{arkappa}$ Recognitions and publications -

Acceptance in EPFL Excellence in Engineering Summer program

BioImage Model Zoo: A Community-Driven Resource for Accessible Deep Learning in BioImage Analysis

Preprint version

BioImage Model Zoo: A Community-Driven Resource for Accessible Deep Learning in BioImage Analysis

Bioarxiv

Fourier transform of Percoll Gradients Boosts CNN Classification of hereditary Hemolytic Anemias ISBI 2021
Publication International Symposium of Biomedical Imaging

2017 Honor Mention in National Physics Olympics Real Sociedad Española de Física

2015 Extraordinary Prize of Secondary Education Junta de Andalucía

## Certificates —

2020 Medical Neuroscience U. Duke

2020 Principles of fMRI2 U. Johns Hopkins/U. Colorado

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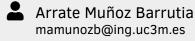


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2020	Principles of fMRI1	U. Johns Hopkins
2020	Deep Learning Specialization Serie de 5 cursos: "Neural Networks and Deep Lear lutional Neural Networks", "Structuring Machine Lear "Improving Deep Neural Networks: Hyperparameter to ization and Optimization" and "Sequence Models"	ning Projects",
2020	Computational Neuroscience	U. Washington
2020	Fundamental of Neuroscience for Neuroimag	ing U. Johns
2020	NDG-Linux  3 courses until level LPIC-1 (Linux server professional)	ofessional Institute   certificate)
2020	PCAP: Programming Essentials in Python Course from Becas Digitaliza (CISCO)	. Miguel Hernández
2020	Cisco Becas Digitaliza: IoT y Big Data USoft skills, Introduction to IoT, Fundamentals of IoT Analytics, Introduction to Packet Tracer	. Miguel Hernández -: Big Data and
2020	Computational Neuroscience Neuronal Dynamics of Cognition	EPFLx
2020	The Multi-scale brain	EPFLx
2020	Neuronal Dynamics	EPFLx
2020	Simulation Neuroscience	EPFLx

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## Non-native languages -

English Bilingüal, technical knowledge in informatics and biology

C1 Cambridge Certificate + TOEFL

French Intermediate

B2, without certificate

German Intermediate

B2.1 with B1 certificate (EOI Carlota Remfry)

### Additional Information —

#### Research experience during studies

Datasets analysis with machine and deep learning, ECG/EEG/Neuroimages processing, Image processing (CT, MRI and PET), personalized medicine and AI for surgical navigation

#### Non related courses

Cellular solids I (MITx), Cellular solids II (MITx), Biology meets programming (UC San Diego), Data Structures (UC San Diego/HSE), Algorithms on strings(UC San Diego/HSE), Algorithmic toolbox (UC San Diego/HSE), Simulink and rasberry pi (Mathworks), Expert in marketing and digital strategy (Universidad de Alcalá), Introduction to Linear Algebra with Matlab (Mathworks)

#### Volunteering and student representation

Doubt solving for college entrance exams [@yoteayudoconlasele] (03/2020 - 07/2020), Tutorship of undergrads (2018-2020), UC3M representative in LEDU STEM (Liga Española de Debate Universitario) (2021), President in CEEIBIS (2020 - 2021), External affairs CEEIBIS (2018 - 2020), Bachelor's representative (2018 - 2020), Event organizer CEEIBIS (2018 - 2022)