

Diego Asua

Education

- 2019 MSc, Neuroscience
University of Oxford, UK
- 2018 BSc, Biochemistry
University of the Basque Country, Spain
- 2013 International Baccalaureate Diploma Programme, Spain

Positions & experience

- 2020-2021 *Research associate*
Neural interface Engineering Lab
NYU Langone Health, USA
- 2019-2020 *Research assistant*
Sensorimotor control Lab
Max Planck Institute of Neurobiology, Germany
- summer 2017 *Intern*
Center for Applied Medical Research, Spain
- 2016-2018 *Intern*
Basque Center for Biophysics, Spain

Data science/ML Projects

- 2020-2021 High-performance computing, embedded programming, analysis pipelines.
- 2019-2020 Terabyte-scale brain activity time series acquisition and analysis, developer of microscope control software: [Sashimi](#).
- 2019 Training convolutional & spiking neural networks in predictive visual coding.
- 2017-2019 Feed-forward neural networks & in-silico molecular docking for protein-drug interaction prediction.

Skills

python ● ● ● ● ●
scientific stack, QT, Pytorch

git, continuous integration
● ● ● ● ○

bash, SLURM
● ● ● ● ○

Frontend
● ○ ○ ○ ○

C, C++
● ○ ○ ○ ○

Science dissemination

PUBLICATIONS, POSTERS AND CONFERENCE PAPERS

Gil, J., **Asua, D**, Shoham, S., Rinberg, D. *Combining natural and synthetic stimulation to unravel the rules governing sensory processing* (2021) @ 50th Conference of the Neuroscience Society

Asua, D, Fristed E, Singer Y, King AJ, Zenke F, Harper NS. *Predictive binary neural network models of primary visual cortex* (2019) @ Oxford Neuroscience day

Asua, D, Bougamra, G, Calleja, M, Morales, M, Knafo, S. *Peptides acting as cognitive enhancers* (2018)

Awards and achievements

2019	Offered a place in DPhil programme in Physiology, Anatomy & Genetics, Oxford (declined)
2019	Student support funding from Brasenose College, Oxford
2018	Scholarship of the Spanish Association Against Cancer
2017	Scholarship of the Basque department of education
2013	Award for excellence in studies (Honours), Basque department of education

Links

[Github](#) [Linkedin](#)