Diego Asua

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Experience



Research Associate

NYU Langone Health

Oct 2020 - Sep 2021 (1 year)

- · Explored machine learning solutions for image denoising with application to point-scanning multiphoton diffractive microscopy, used for optical closed-loop brain machine interfaces.
- Analysis of data from ultrasound neurostimulation device at scale in a one of the most powerful highperformance parallelized (cloud) computing clusters of the US.
- · Collected data with a custom-built multi-photon scope for research of basic mechanisms of odorant detection, discrimination and behaviour modulation to reverse-engineer neural circuits underpinning olfaction.
- High-energy laser diffractive optics

🚫 Research Assistant

Max Planck Institute for Biological Intelligence (in foundation)

Oct 2019 - Jul 2020 (10 months)

- · Software engineering: GUI design, serial comm., data pipelines, multiprocessing, JIT, Object-Oriented programming
- Data science: Analysis pipelines with Pandas and Numpy, visualization with Matplotlib, Seaborn and
- Co-developed a microscope suite for 3-D optical brain-reading at scale with GPU-accelerated live 3D visualization, and Qt for GUI.

Secretary

Oxford University Cortex Club

May 2019 - Aug 2019 (4 months)

- Preparing agenda for meetings
- · Hosting speakers from top universities around the world
- Writing meeting minutes
- Collaborating with several UK trusts and incubators

Vice President & treasurer HCR

Brasenose College, Oxford

Mar 2019 - Aug 2019 (6 months)

- Budgeting
- Reimbursements
- · Bimonthly meetings with college board
- · Dealing with financial institutions from the university

• Executive decisions for the committee

Researcher

Basque Center for Biophysics

Jan 2016 - Jun 2018 (2 years 6 months)

- Large-scale computer-aided drug screening with machine learning and rigid molecular simulations (Docking).
- · Various experiments in neuroscience involving molecular assays and electrophysiology

Researcher Researcher

Cima Universidad de Navarra

Jun 2017 - Jul 2017 (2 months)

· Researcher in molecular mechanisms of lung and colon cancer, new therapeutic targets.

Education

University of Oxford

Master of Science - MS, Neuroscience 2018 - 2019

Universidad del País Vasco/Euskal Herriko Unibertsitatea

Bachelor's degree, Biochemistry 2014 - 2018

🚯 International Baccalaureate

Sep 2011 - Jun 2013

Skills

python • pandas • Seaborn • Scikit-Learn • NumPy • PyTorch • Altair • html css • Machine Learning • MongoDB