

# Curriculum Vitae

## Alejandro Pan-Vazquez, Ph.D.

*Sir Henry Wellcome Postdoctoral Fellow*

Princeton Neuroscience Institute,  
Princeton University,  
NJ, USA  
Website: <https://alex-pan.com/>  
Phone. +1 609 3566614  
Email: [apv2@princeton.edu](mailto:apv2@princeton.edu)

### Education

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- 2014 to 2019      Ph.D. in Neuroscience – IoPPN, King’s College London, University of London (UK)  
Graduate advisor: Prof. Juan Burrone  
Award date: March 1<sup>st</sup>, 2019  
Thesis Title: “The emergence and plasticity of synapses at the axon initial segment”
- 2010 to 2014      MSci in Neuroscience, University of Nottingham (UK)  
Grade: First Class Honours
- 2008 to 2010      A - Levels, The Braga International School (Portugal)  
Mathematics, Chemistry, Biology and Spanish (Cambridge International Examinations)

### Graduate courses and other education

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- 2018              Biobit: Introductory lectures in information theory and bayesian inference (4 sessions).  
Centre for developmental neurobiology, IoPPN, King’s College London (London, UK)
- 2016              Okinawa Computational Neuroscience Course (3 weeks).  
Okinawa Institute of Science and Technology (Okinawa, Japan)
- 2014 to 2015      Graduate course in quantitative skills in bioscience (1 year)  
SYSMIC (<https://sysmic.ac.uk/>) (remote learning)

### Research Experience

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- 2019 (Ongoing)      Witten Lab & International Brain Laboratory - Princeton University (Princeton, USA)  
Postdoctoral Fellow
- 2015 to 2019      Burrone Lab – Centre for Developmental Neurobiology, King’s College London (London, UK)  
Ph.D Student
- 2014 to 2015      PhD Rotations - Centre for Developmental Neurobiology, King’s College London (London, UK)  
Rotation student in: Houart Lab, Sahara Lab and Burrone Lab.
- 2013 to 2014      Toledo-Rodriguez Lab - Queen’s Medical Center, University of Nottingham (Nottingham, UK)  
Undergraduate Researcher
- 2012 to 2013      Molecular Biology, Pfizer Inc. (Cambridge, UK)  
Molecular biology Industrial Trainee

## Teaching and mentoring

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- 2019 to 2022 Supervision of Laura Haetzel (Research Assistant), Akhil Bandi (Research Assistant) and Yoel Sanchez-Araujo (PhD student), Brenna McMannon (Research Assistant).  
Princeton University,
- 2016 to 2018 Teaching Assistant in Neuroanatomy for year 2 medical students (MBBS).  
GKT School of Medicine, King's College London

## Grants & Awards

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- 2020 Sir Henry Wellcome Postdoctoral Fellowship (\$ 420,000)
- 2017 Travel award from The Guarantors of Brain (\$ 840)
- 2016 Travel award from The British Society for Developmental Neurobiology (\$ 700)
- 2016 Travel award from The Guarantors of Brain (\$ 910)
- 2016 Travel award from the King's College Graduate School (\$ 350)
- 2014 Accepted in 4-year MRC funded PhD program at the Centre for Developmental Neurobiology, King's College London (Undisclosed amount)
- 2011 Kupcinet-Getz program scholar at the Weizmann Institute of Science (\$600)

## Publications

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- 2022 International Brain Laboratory, ..., **Pan-Vazquez, A.**, ..., et al., 2022 Reproducibility of in-vivo electrophysiological measurements in mice. bioRxiv. <https://doi.org/10.1101/2022.05.09.491042>
- 2021 International Brain Laboratory, ..., **Pan-Vazquez, A.** #, ..., et al., 2020. A standardized and reproducible method to measure decision-making in mice. eLife. <https://doi.org/10.1101/2020.01.17.909838>
- 2020 **Pan-Vazquez, A.\***, Wefelmeyer, W., Gonzalez Sabater, V., Neves, G., Burrone, J., 2020. Activity-Dependent Plasticity of Axo-axonic Synapses at the Axon Initial Segment. Neuron. <https://doi.org/10.1016/j.neuron.2020.01.037>
- NRN Highlight: Lewis, S., 2020. Held in the balance. Nat. Rev. Neurosci. 1–1. <https://doi.org/10.1038/s41583-020-0295-1>
- 2017 Thomas-Jinu, S., ..., **Pan-Vazquez, A.**, ... et al., 2017. Non-nuclear Pool of Splicing Factor SFPQ Regulates Axonal Transcripts Required for Normal Motor Development. Neuron 94, 322-336.e5. <https://doi.org/10.1016/j.neuron.2017.03.026>
- 2015 **Pan-Vazquez, A.\***, Rye, N., Ameri, M., McSparron, B., Smallwood, G., Bickerdyke, J., Rathbone, A., Dajas-Bailador, F., Toledo-Rodriguez, M., 2015. Impact of voluntary exercise and housing conditions on hippocampal glucocorticoid receptor, miR-124 and anxiety. Mol. Brain 8, 40. <https://doi.org/10.1186/s13041-015-0128-8>

\* **First author / First co-author**

# **Task Forcer Member.** Publications from the International Brain Laboratory list authors alphabetically and have no first authors. However, The production of all IBL Platform Papers is led by a Task Force, which defines the scope and composition of the paper, assigns and/or performs the required work for the paper, and ensures that the paper is completed in a timely fashion.

## Conference presentations and invited talks

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2022	GRC Basal Ganglia (Ventura, USA) - Poster
2019	Society for Neuroscience Annual Meeting (Chicago, USA) - Poster
2019	Simons Collaboration on the Global Brain (New York, USA) – Poster
2018	Witten Lab, Princeton University (Princeton, USA) - Invited Talk
2018	Yuste Lab, Columbia University (New York, USA) - Invited Talk
2018	Frank Lab, University of California San Francisco (San Francisco, USA) - Invited Talk
2017	MRC Centre for Neurodevelopmental Disorders Symposium (London, UK) - Poster
2017	GRC Inhibition in the CNS (Les Diablerets, Switzerland) - Poster
2016	Society for Neuroscience Annual Meeting (San Diego, USA) – Talk (Nanosymposium)
2014	Zebrafish circuits and imaging (Paris, France) – Poster

## Academic Service

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2021	Princeton Neuroscience Institute Retreat Co-Organizer
2016-2018	Founding member of Neureka! A student/postdoc association which organizes neuroscience seminars and events for fostering scientific collaboration in the London area. (London,UK)
2018	Organized and hosted seminar by Prof. Thomas Klausberger, Medical University of Vienna. (London, UK)
2017	Organized and hosted seminar by Prof. Claudia Clopath, Imperial College London. (London, UK)
2017	Organized and hosted seminar by Prof. Natalia de Marco, Weill Cornell Medical School (London, UK)
2016	PhD Representative - Centre for Developmental Neurobiology (London, UK)
2016	Organized and hosted seminar by Prof. David Nutt, Imperial College. (London, UK)

## Miscellaneous

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Languages: English, Spanish and Portuguese

Programming languages: Python, Stan and MATLAB

Nationality: Spanish and British