

# Miguel Ramírez-Moreno, PhD

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## SUMMARY

Researcher in cell biology and neuroscience with a strong focus on uncovering mechanisms underlying human health and disease. Experienced in advanced cell biology models, confocal microscopy, and quantitative image analysis. Multiple scientific writing experience, including manuscripts, grant proposals, conference abstracts, peer review, and public outreach, with a proven ability to translate complex scientific concepts into clear language for both technical and non-technical audiences. Experienced educator across multiple academic levels, with a strong track record in mentoring and supervising junior researchers. Demonstrated ability to manage multiple projects and deliver results.

## RESEARCH EXPERIENCE

### University of Southampton (Amrit Mudher Lab)

Postdoctoral researcher

Sep. 2022 – Present

Southampton, England

- Developed an assay to score Tau-mediated toxicity using the *Drosophila* wing (10.1242/dmm.052492).
- Investigating Tau pathology on neuronal circuits (10.1093/braincomms/fcad052, 10.1101/2024.12.22.629946).
- Supported the development of novel dementia diagnostic tools (10.1021/acs.analchem.5c00776).
- Lecturer in neuroscience (BIOL3020) and microscope imaging and analysis (BIOL6097).

### University of Sheffield (Natalia Bulgakova and David Strutt labs)

Postdoctoral researcher

Oct. 2017 – May. 2022

Sheffield, England

- Characterized a novel tumor-suppressing mechanism that links intracellular trafficking with cell adhesion (10.1091/mbc.E21-12-0598, 10.1371/journal.pgen.1011781).
- Investigated microtubule organization as part of a multi-disciplinary collaboration (10.7554/eLife.59529) and how it is impacted by Ft-Ds planar polarity (10.1091/mbc.E22-09-0442).
- Lecturer and mentor of PhD students as part of Associated Supervisionaries scheme.

### University of Southampton (Herman Wijnen Lab)

PhD student and demonstrator

Oct. 2013 – Sept. 2017

Southampton, England

- Completed PhD in chronobiology (“*The small GTPase Rho1 couples peptidergic control of circadian behaviour to molecular oscillator function in Drosophila melanogaster*”).

### Universidad Autónoma de Madrid (UAM) and CBMSO

Stipended MRes student

Sept. 2011– Sept. 2013

Madrid, Spain

- Learned to use the *Drosophila* wing to analyze mechanisms of tumor development.

## EDUCATION

### University of Southampton

PhD

Oct. 2017

Southampton, England

### Universidad Autónoma de Madrid (UAM) and CBMSO

MRes in Molecular and Cellular Biology (average grade 9.1/10)

July 2012

Madrid, Spain

### Universidad Autónoma de Madrid (UAM)

BSc in Biology (Average grade 7.77/10)

July 2011

Madrid, Spain

## SKILLS & INTERESTS

- **Technical:** Expertise in cell/developmental biology, genetics, and neuroscience with hands-on proficiency in *Drosophila* systems, cell culture, CRISPR editing, molecular biology, and advanced imaging/quantitative analysis (FIJI, MATLAB, Python).
- **Communication:** Strong technical communicator skilled in turning complex data into clear outputs for diverse audiences; experienced in digital content creation, presentations, outreach, and coordinating communication.
- **Leadership:** Proven project and team management abilities, including grant budgeting, supervising trainees, organising events, and holding leadership roles across departmental committees.
- **Non-research interests:** Film, TV shows, reading, drawing, writing, music, Jurassic Park.