



RODRIGO GARCÍA-TEJERA

PUBLICATIONS

- Gallot, T., Gau, D., & García-Tejera, R. (2023). Coupled oscillations of the Wilberforce pendulum unveiled by smartphones. *American Journal of Physics*, 91, 865–866.
- García-Tejera, R., Schumacher, L., & Grima, R. (2022). Regulation of stem cell dynamics through volume exclusion. *Proceedings of the Royal Society A*, 478(2266), 20220376.
- García, R., Martí, A., Cabeza, C., & Rubido, N. (2020). Small-worldness favours network inference in synthetic neural networks. *Scientific reports*, 10(1), 1-10.
- (MSc. thesis) García, R. (2019). Connectivity inference in neural networks with *C. elegans* structure.
- García, R., Rubido, N., Martí, A., & Cabeza, C. (2014). The role of intermediaries in the synchronization of pulse-coupled oscillators. *The European Physical Journal Special Topics*, 223(13), 2819-2829.
- Cabeza, C., Briozzo, C., Garcia, R., Freire, J., Martí, A., & Gallas, J. (2013). Periodicity hubs and wide spirals in a two-component autonomous electronic circuit. *Chaos, Solitons & Fractals*, 52, 59-65.

CONTACT

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Medicine, University of
Edinburgh.
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EDUCATION

2021-current

PhD in Regenerative Medicine
University of Edinburgh, UK.

Main project: Uncovering regulation strategies of stem cell populations through stochastic modelling.

Teaching: Primer for Mathematical Modelling for Biologists (EASTBIO).

Thesis submission: April 2024.

2019

MSc in Physics
Universidad de la República
Uruguay.

Main project: Relationship between connectivity and functionality in synthetic neural networks.

Other topics: Statistical mechanics; Monte Carlo methods; Non-linear physics; Complex networks; Complex systems school (ICTP, Trieste, Italy).

2014

BSc. in Physics
Universidad de la República,
Uruguay.

CONFERENCES

09/2023

Physics of Living Matter Conference, University of Cambridge, UK.

Poster: 'Uncovering regulation strategies of somatic stem cells in spermatogenesis'.

05/2023

Edinburgh Mathematical Biology Conference (EdMathBio), University of Edinburgh, UK.

Contributed Talk: 'The role of licensed states of somatic stem cells in spermatogenesis'.

09/2022

European Society for Mathematical Biology Conference, Heidelberg, Germany.

Contributed Talk: 'Regulation of stem cell dynamics through volume exclusion'.

08/2022

Dynamics Days Europe 2022, University of Aberdeen, UK.

Contributed Talk: 'Stochastic modelling of stem cell dynamics'.

07/2022

Biology for Physics Conference, Biomedical Research Centre, Barcelona, Spain.

Contributed Talk: 'Finding signatures of regulation strategies in stem cell populations'.

08/2020

Society for Mathematical Biology Annual Meeting, virtual meeting.

Poster: 'Small-worldness favours network inference in synthetic neural networks'.

11/2018

Dynamics Days Latin America and the Caribbean, Punta del Este, Uruguay.

Poster: 'Connectivity inference in networks with C.elegans structure'.

WORK EXPERIENCE

2013-2021

Research assistant and lecturer, Physics Institute, Universidad de la República, Uruguay.

Lecturer: Introduction to Biophysics II; Laboratory of Biophysics I; Laboratory of Biophysics II; Laboratory of Physics IV, Laboratory of Physics V.

Teaching assistant: Laboratory of Physics I, Laboratory of Physics II, Statistical Mechanics, Introduction to Physics II.

Research assistant: Statistical Mechanics and Nonlinear Physics group.

Management: Staff representative at Physics Institute's teaching board.

2017-2019

University physics lecturer, Universidad Tecnológica, Uruguay.

Biomedical engineering: Lecturer in Waves, Mechanics and Heat Transfer; lecturer in Electrical Physics.

Mechatronics engineering: Lecturer in Electromagnetism.

AWARDS AND GRANTS

09/2023

Wilmot Prize runner-up

Award to best final-year PhD research talk at Centre for Regenerative Medicine, University of Edinburgh.

06/2022

Best Poster prize runner-up

Award to best second-year PhD poster presentation at Centre for Regenerative Medicine, University of Edinburgh.

03/2020

Edinburgh Global scholarship

Award covering a portion of the PhD in Regenerative Medicine's tuition fee.

01/2020

Chancellor's Fellows studentship

Award covering a portion of the PhD in Regenerative Medicine's tuition fee and providing stipend.

09/2016

Comisión Sectorial de Investigación Científica (CSIC) research grant 97/2016

Small grant aimed at early-career researchers and advanced post-grad students to conduct a piece of research independently.

03/2015

Agencia Nacional de Investigación e Innovación (ANII) MSc. grant

Grant and stipend to undertake a 2 years Masters by Research course.

