Matias Leandro Andina

Personal Information

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Education

2016-2018 — **MSc Student, University of Massachusetts Amherst**, USA
Thesis: Mapping a pup-resposive pathway from medial preoptic area to ventral tegmental area.
Advisor: Dr Mariana Pereira.
GPA: 3.87

2010-2015 — **Biology Degree, University of Buenos Aires**, Argentina
Thesis: Study of different long-term memories and participation of synaptic ERK/MAPK in memory consolidation.
Advisor: Dr Mariana Feld
GPA: 8.4/10.0

Research Experience

Current 2018 — **Technical Associate**
Massachusetts Institute of Technology, USA
Study of inflammatory-induced and genetic deficits on social behavior.

2016-2018 — **MSc Student - Neuroscience and Behavior Program**
University of Massachusetts Amherst, USA
Study of neural circuits involved in maternal behavior using a rat model.

2013-2015 — **Undergraduate Research Assistant**
Neurobiology of Memory Lab, IFIByNE-CONICET, Argentina
Contextual Pavlovian Conditioning, long term memory consolidation and molecular mechanisms involved in crab's escape response to a visual danger stimulus.

Publications

Ojea Ramos S., **Andina M.**, Romano A., Feld, M. Two spaced training trials induce associative ERK-dependent long term memory in Neohelice granulata. *In preparation.*
Reed M.D., Yim Y.S., (...), **Andina M.**, (...), Huh J.R., Choi G.B. Interleukin-17a restores sociability in several mouse models for neurodevelopmental disorders. Nature. *In press.*

Skills

Laboratory	Stereotaxic surgery, Brain localized injections, Perfusion, Brain tissue collection, Cryosectioning, Immunohistochemistry, Epifluorescence and Confocal Microscopy, Microdialysis probe implant and sample collection, Tissue homogenates, ELISA, HPLC, Gel electrophoresis.
Computer	Software: Microsoft Office, SPSS, Inkscape, ImageJ, Illustrator. Languages: R, Python, MATLAB, Markdown, Latex, C(Arduino).

Teaching Experience

University of Massachusetts Amherst

2018 **Teaching Assistant**
Methods of Inquiry in Psychology.

2017 **Instructor of Record**
Animal Behavior: stay fit, survive another day. First year 1 credit seminar, supported by College of Natural Sciences (CNS) fellowship. CIRTL Associate.

2017 **Teaching Assistant**
Interdisciplinary Methods in Psychology.

Invited Talks and Lectures

2019 **Data Visualization** - Philanthropy Advisory Fellowship, Harvard.
2017 **Parenting Behaviors** - Behavioral Neuroendocrinology, UMass
2017 **Neural Basis of Maternal Behavior** - Neuroscience club, UMass.

Conferences and Presentations

2018 Ojea Ramos S., **Andina M.**, Feld M. Long-term memory induced by two training trials in the crab Neohelice granulata. Presented at the 11th FENS forum, Berlin, Germany.

2015 **Andina M.**, Romano A., Feld M. Two-trial long-term memory in the crab Neohelice granulata. Presented at the 30th Annual Meeting of the Argentinean Society of Neuroscience Research. Mar del Plata, Argentina.

2013 **Andina M.**, Klappenbach M., Locatelli F., Pedreira E., Romano A., Feld M. Measuring crab's memory: improving conditioning. Presented at the Annual Meeting of the Argentinean Society of Neuroscience Research. Huerta Grande, Argentina.

Scholarships and Awards

2017 College of Natural Sciences Fellowship, University of Massachusetts Amherst.
2016 Neuroscience and Behavior Program Fellowship, University of Massachusetts Amherst.
2015 Young ISN Neurochemistry Award.

Mentoring

University of Massachusetts Amherst

2017 - 2018	Idil Tuncali Projects(s): Ultrasonic vocalization analysis. Statistics. R.
2017	Nneka Southwell Technique(s): Perfusion, Tissue Collection, Cryosectioning.
2016 - 2017	Thomas Riley Potter Project(s): Microdialysis probe calibration.
2016	Dar Alon Project(s): Automated cell counting.

Software Development

- R package author of *stepfinder*. Detection of steps in 1 dimensional data.
  https://github.com/matiasandina/stepfinder

- R package contributor of *SMART*. Semi-manual alignment to reference templates (SMART):
  An open source pipeline in R for whole brain mapping.
  https://github.com/matiasandina/SMART and https://github.com/mjin1812/smart

- Python GUI for scoring of behavior and TTL synchronization.
  https://github.com/matiasandina/annotate_behavior_video

- Python GUI for acquisition and analysis of data in a marble burying paradigm.

Service

Massachusetts Institute of Technology

Current	Organization of the first AI Latin America sumMIT.
2019	Sponsor Coordinator http://ailatinsum.mit.edu/

University of Massachusetts Amherst

2018 - 2016	NSB Seminar Committee. Organization of invited Faculty talks at UMass.
2018 - 2017	NSB Mentoring Committee. Organization of first year graduate student activities and mentoring events.

Outreach

2018 - 2016	That's Life [Science] Blog. Article writing and editing.

Languages

Spanish:	Native Proficiency
English:	Bilingual Proficiency
Portuguese:	Intermediate Proficiency