

# Matias Leandro Andina

## Personal Information

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email: mandina[at]mit.edu ; matiasandina[at]gmail.com  
URL: matiasandina.netlify.com

## Education

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| 2016-2018 | <b>MSc Student, University of Massachusetts Amherst, USA</b><br>Thesis: Mapping a pup-responsive pathway from medial preoptic area to ventral tegmental area.<br>Advisor: Dr Mariana Pereira.<br>GPA: 3.87                 |
| 2010-2015 | <b>Biology Degree, University of Buenos Aires, Argentina</b><br>Thesis: Study of different long-term memories and participation of synaptic ERK/MAPK in memory consolidation.<br>Advisor: Dr Mariana Feld<br>GPA: 8.4/10.0 |

## Research Experience

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| Current<br>2018 | <b>Technical Associate</b><br><i>Massachusetts Institute of Technology, USA</i><br>Study of inflammatory-induced and genetic deficits on social behavior.  |
| 2016-2018       | <b>MSc Student - Neuroscience and Behavior Program</b><br><i>University of Massachusetts Amherst, USA</i><br>Study of neural circuits involved in maternal behavior using a rat model.   |
| 2013-2015       | <b>Undergraduate Research Assistant</b><br><i>Neurobiology of Memory Lab, IFIByNE-CONICET, Argentina</i><br>Contextual Pavlovian Conditioning, long term memory consolidation and molecular mechanisms involved in crab's escape response to a visual danger stimulus. |

## Skills

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| <i>Laboratory</i> | 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. |
| <i>Computer</i>   | Software: Microsoft Office, SPSS, Inkscape, ImageJ, Illustrator.<br>Languages: R, Python, MATLAB, Markdown, Latex, C(Arduino).   |

## Teaching Experience

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*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. CIRTLL Associate.
- 2017 **Teaching Assistant**  
Interdisciplinary Methods in Psychology.

## Invited Talks and Lectures

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- 2017 **Parenting Behaviors** - Behavioral Neuroendocrinology, UMass
- 2017 **Neural Basis of Maternal Behavior** - Neuroscience club, UMass

## Conferences and Presentations

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- 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, E.; 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

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- 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

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*University of Massachusetts Amherst*

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| 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

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- R package author of *stepfinder*. Detection of steps in 1 dimensional data.  
<https://github.com/matiasandina/stepfinder>
- Python GUI for scoring of behavior and TTL synchronization.  
[https://github.com/matiasandina/annotate\\_behavior\\_video](https://github.com/matiasandina/annotate_behavior_video)
- Python GUI for acquisition and analysis of data in a marble burying paradigm.

## Service

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### *Massachusetts Institute of Technology*

Current	Organization of the first AI Latin America sumMIT.
2018	Leader of Sponsor committee <a href="http://ailatinsum.mit.edu/">http://ailatinsum.mit.edu/</a>

### *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

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

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