

Bruno Mesquita

E-mail: bmesquit@uwo.ca

Education:

Master's degree in Neuroscience

University of Western Ontario, London, Canada

January 2021 - present

Bachelor's degree in Biological Sciences

University of São Paulo, Ribeirão Preto, Brazil

February 2015 - July 2020

Licentiate degree in Biological Sciences

University of São Paulo, Ribeirão Preto, Brazil

February 2015 - July 2020

Research Interests:

Neuroscience, Cognitive Neuroscience, Evolution, Language acquisition, Statistical Learning, Science Education.

Research Experiences:

Mitacs Research Internship

*Équipe de recherche en psychologie cognitive
Université du Québec à Trois-Rivières*

JULY 2019 - AUGUST 2019

- Worked under the supervision of Professor Isabelle Blanchette.
- Designed experimental protocol, collected and analysed EEG data for a project entitled: Cognitive neuroscience of emotion-cognition interaction.

Research Internship

*Laboratory of Epistemology and Didactic of Biology
University of São Paulo at Ribeirão Preto.*

MARCH 2019 - PRESENT

- Working under the supervision of Professor Fernanda da Rocha Brando.
- Conducting primary and secondary source research for a project entitled "Seeding evolutionary knowledge in Brazilian public schools".

Research Internship

*Laboratory of Investigation in Epilepsies.
University of São Paulo at Ribeirão Preto.*

JUNE 2018 – PRESENT

- Working under the supervision of Professor João Pereira Leite.
- Developing and working on the project “Development of a within-subject design to investigate the neural encoding of degrees of control over aversive stimuli.”

Technical Training

*Laboratory of Investigation in Epilepsies.
University of São Paulo at Ribeirão Preto.*

JUNE 2016 – DECEMBER 2017

- Worked under the supervision of Professor João Pereira Leite.
- Learned relevant theory on topics of neuroscience, neuropsychology and neuropsychiatry.
- Learned relevant techniques on behavioural testing of rodents.

Conference Presentations:

Oral Presentations:

- Mesquita, B.A., Marques, D.B., Rossignoli, M.T., Ruggiero, R.N., Leite, J.P. (2019,10). *Development of a within-subject design to investigate the neural encoding of degrees of control over aversive stimuli.* Annual meeting of the Brazilian Society of Neurosciences and Behavioral Sciences. Campos do Jordão, São Paulo, Brazil.

Poster Presentations:

- Mesquita, B.A., Marques D.B, Rossignoli, M.T., Ruggiero, R.N., Leite, J.P. (2020, 10). *Development of a new animal model to investigate the neural encoding of degrees of control over aversive stimuli.* XII Forum on Neurobiology of Stress and International Symposium on Ethanol Research. Ribeirão Preto, São Paulo, Brazil.
- Mesquita, B.A., Marques, D.B., Rossignoli, M.T., Ruggiero, R.N., Leite, J.P. (2019,10). *Development of a within-subject design to investigate the neural encoding of degrees of control over aversive stimuli.* Annual meeting of the Brazilian Society of Neurosciences and Behavioral Sciences. Campos do Jordão, São Paulo, Brazil. (Awarded Honorable Mention)

- Mesquita, B.A., Marques, D.B., Rossignoli, M.T., Ruggiero, R.N., Leite, J.P. (2019,09). *Characterization of the ability to discriminate between controllable and uncontrollable aversive stimuli in rats*. International symposium of scientific initiation of the University of São Paulo, Ribeirão Preto, São Paulo, Brazil. (Awarded Honorable Mention)

Teaching Experience:

Institutional Program of Scholarships for Teaching Initiation (PIBID)

Laboratory of Education in Biology.
University of São Paulo at Ribeirão Preto.

MARCH 2017 – DECEMBER 2017

- Worked under the supervision of Professor Marcelo Motokane.
- Created and implemented didactic sequences on different topics of science education on Brazilian public schools.

Technical Competences:

- Programming in R, Matlab, and Python
- Experimental design in E-Prime software.
- EEG data collection in humans.
- Basic knowledge of EEG data analysis.
- Basic knowledge of image and video editing software.
- Behavioural testing of rodents.
- Assembling and implantation of electrode microarray bundles in rodents.
- Systematic review and sorting of literature.
- Creation and implementation of didactic sequences.

Leadership, Organization and Community Service:

| | |
|---|-------------|
| Expositor and Organization | 2017 |
| “Bio na Rua” (Biology in the Streets) | |
| <hr/> | |
| Expositor | |
| Semana Nacional do Cérebro (Brain Awareness Week) | 2016 |
| <hr/> | |

Students Representative

University of São Paulo at Ribeirão Preto -
Department of Biology

2016/01 to 2017/01

English teacher

Public preparatory course for the
Law School of Ribeirão Preto

2016/01 to 2017/06

Organization

Annual week of bio studies

2015,2016

Member of the Student Union

University of São Paulo at Ribeirão Preto -
Department of Biology

2015/03 to 2016/12

Scholarships and Grants Awarded:

- **Globalink Graduate Fellowship**

Mitacs

2021

- **Scientific initiation scholarship**

São Paulo Research Foundation (FAPESP)

2019

- **Mitacs Research Internship**

Mitacs

2019

- **Scholarship for teaching initiation**

Institutional Program of Scholarships for Teaching Initiation
(PIBID)

2017

Languages and Personal Interests:

- **Languages:**

- Portuguese (Native)
- English (Fluent, TOEFL IBT 115/120)
- Spanish (Limited working proficiency)
- French (Elementary proficiency)

- **Personal Interests:**

- Science Communication and Awareness
- Media Criticism
- Video Games
- Debating
- Dungeons and Dragons