

# Julieta Laurino

PhD Student

Institute of Physiology, Molecular Biology and Neuroscience,  
University of Buenos Aires, CONICET, Buenos Aires, Argentina.

Email: julilaurino@gmail.com

## EDUCATION

### 2020 – present **PhD in Biological Sciences**

Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.

Project: “The role of context on semantic ambiguity processing: a neurobiological and computational analysis.”

Advisor: Dr. Laura Kaczer. Dept. of Physiology, Molecular and Cellular Biology, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.

### 2014 – 2020 **Licenciada in Biological Sciences** (equivalent to MSc)

Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.

Undergraduate thesis: “Updating the meaning of new words in adults through memory reactivation.” Thesis marked 10 (out of 10).

Advisor: Dr. Laura Kaczer. Dept. of Physiology, Molecular and Cellular Biology, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.

## RESEARCH EXPERIENCE

### 2020 – present **Doctoral Researcher**

Language and Cognition Laboratory, Institute of Physiology, Molecular Biology and Neuroscience, University of Buenos Aires, CONICET, Argentina.

Advisor: Dr. Laura Kaczer.

Project: “The role of context on semantic ambiguity processing: a neurobiological and computational analysis.”

### 2023 – 2024 **Visiting Doctoral Researcher**

Speech and Bilingualism Laboratory, Basque Center on Cognition, Brain and Language (BCBL), Donostia, Spain.

Advisor: Dr. Clara D. Martin.

Project: “Effects of semantic context on cognitive effort in bilingual word processing: a pupillometry study”.

### 2016 – 2020 **Undergraduate Researcher.**

Neuroscience of Memory Laboratory, Institute of Physiology, Molecular Biology and Neuroscience, University of Buenos Aires, CONICET, Argentina.

Advisor: Dr. Laura Kaczer.

Project: “Updating the meaning of new words in adults through the process of memory reactivation.”

### 2017 **Research assistant.**

Laboratory of Applied Artificial Intelligence, Dept. of Computer Science, University of Buenos Aires, Argentina.

Advisor: Dr. Guillermo Solovey.

Projects of computational neuroscience using eye-tracker.

## PUBLICATIONS

### Journal Articles

1. **Laurino, J., & Kaczer, L. (2024).** *Pupil size tracks the effects of global context and semantic ambiguity on word-meaning processing.* OSF preprint. <https://doi.org/10.31234/osf.io/7dt8j> (in review)
2. **Laurino, J., De Deyne, S., Cabana, Á., & Kaczer, L. (2023).** The Pandemic in Words: Tracking Fast Semantic Changes via a Large-Scale Word Association Task. *Open Mind*, 7, 221–239. [https://doi.org/10.1162/opmi\\_a\\_00081](https://doi.org/10.1162/opmi_a_00081)
3. **Laurino, J., Forcato, C., Coaker, N., Pedreira, M. E., & Kaczer, L. (2022).** Learning new words: Memory reactivation as a mechanism for strengthening and updating a novel word's meaning. *Memory & Cognition*, 50(4), 655–671. <https://doi.org/10.3758/s13421-021-01247-1>
4. **Laurino, J., & Kaczer, L. (2019).** Animacy as a memory enhancer during novel word learning: Evidence from orthographic and semantic memory tasks. *Memory*, 27(6), 820–828. <https://doi.org/10.1080/09658211.2019.1572195>
5. **Kaczer, L., Bavassi, L., Petroni, A., Fernández, R. S., Laurino, J., Degiorgi, S., Hochman, E., Forcato, C., & Pedreira, M. E. (2018).** Contrasting dynamics of memory consolidation for novel word forms and meanings revealed by behavioral and neurophysiological markers. *Neuropsychologia*, 117, 472–482. <https://doi.org/10.1016/j.neuropsychologia.2018.07.001>

### Book Chapters

1. **Laurino, J. & Kaczer L.** Memory in the Classroom. In Nin, V. & Valle – Lisboa, J. C. (Ed.). *Contributions of Cognitive Sciences to Education.* Interdisciplinary Center on Cognition for Teaching and Learning (CICEA). Universidad de la República, Montevideo, Uruguay.

## AWARDS AND FELLOWSHIPS

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|-------------|--|
| 2024        | <b>Scholarship to participate in the “Exploring complex networks and their applications” course</b><br>Interdisciplinary Center for Data Science and Machine Learning, Universidad de la República, Montevideo, Uruguay.<br>The scholarship covered the cost of travel, food, accommodation and course tuition.        |
| 2023        | <b>Travel Grant for a three-month research stay</b><br>Boehringer Ingelheim Fonds Travel Grant.<br>The grant covered the cost of the accommodation for a three-month research stay in the Basque Center on Cognition, Brain and Language (BCBL), Donostia, Spain.  |
| 2023        | <b>Travel Grant for a three-month research stay</b><br>Mobility Program (+Travel) of the Faculty of Exact and Natural Sciences of the University of Buenos Aires.<br>The grant covered the travel costs for a three-month research stay in the Basque Center on Cognition, Brain and Language (BCBL), Donostia, Spain. |
| 2022        | <b>Scholarship to participate in the “Genetics and Neurobiology of Language”</b><br>The Helmsley Trust Award.<br>The scholarship covered the total cost of this prestigious specialized course held at Cold Spring Harbor Laboratory, NY, USA.   |
| 2020 – 2025 | <b>PhD Fellowship</b><br>National Scientific and Technical Research Council (CONICET), Argentina.<br>PhD fellowship awarded by the Argentinian government to pursue doctoral research in neuroscience at the Institute of Physiology, Molecular Biology and Neuroscience, University                                   |

of Buenos Aires, CONICET, Argentina.

2018 – 2020 **Undergraduate Research Fellowship**

University of Buenos Aires.

Undergraduate fellowship awarded to engage in undergraduate training in neuroscience at the Institute of Physiology, Molecular Biology and Neuroscience, University of Buenos Aires, Argentina.

## PRESENTATIONS

### Selected Presentations

- 2024 **Laurino, J.**, Kaczer, L. & Martin, Clara D. Semantic Context Reduces Cognitive Effort in Bilingual Word Processing: A Pupillometry Study. XXXIX Congress of the Argentinian Society of Investigations in Neuroscience, Buenos Aires, Argentina. **Poster presenter.**
- 2024 **Laurino, J.**, Kaczer, L. & Martin, Clara D. Semantic Context Reduces Cognitive Effort in Bilingual Word Processing: A Pupillometry Study. 1st Argentine Cognitive Science Meeting, Buenos Aires, Argentina. **Poster presenter.**
- 2023 **Laurino, J.**, Traverso, A., Jurado, D. & Kaczer, L. The Role of Context in Semantic Ambiguity Processing: Insights From Behavioral and Pupillometry Measures. XXXVIII Congress of the Argentinian Society of Investigations in Neuroscience, San Luis, Argentina. **Poster presenter.**
- 2022 **Laurino, J.** & Kaczer, L. Time flies like an arrow; fruit flies like banana: the role of context in semantic ambiguity processing. XXXVII Congress of the Argentinian Society of Investigations in Neuroscience, Buenos Aires, Argentina. **Poster presenter.**
- 2021 **Laurino, J.**, De Deyne S., Cabana A. & Kaczer, L. Semantic changes due to the COVID-19 pandemic from a large scale word association study. XXXVI Congress of the Argentinian Society of Investigations in Neuroscience. Virtual. **Poster presenter.**
- 2021 **Laurino, J.**, Forcato, C., Pedreira, M.E. & Kaczer, L. Learning new words: memory reactivation as a mechanism for strengthening a novel word's meaning. BeOnline Conference, organized by the Division of Psychology and Language Sciences, University College London. Virtual. **Poster presenter.**
- 2020 **Laurino, J.**, & Kaczer, L. Word learning and semantic integration: moving from lab-based to online experiments. BeOnline Conference, organized by the Division of Psychology and Language Sciences, University College London. Virtual. **Poster presenter.**
- 2019 Kaczer L., **Laurino, J.**, Chaves F., Forcato C. & Pedreira M.E. Updating the meaning of a word: Memory reactivation boosts integration into an existing memory trace. Society for Neuroscience Conference, Chicago, USA.
- 2017 **Laurino, J.**, Forcato, C., Pedreira, M.E. & Kaczer, L. Updating the meaning of a word: memory reactivation boosts integration into an existing memory trace. XXXIV Congress of the Argentinian Society of Investigations in Neuroscience, Córdoba, Argentina. **Poster presenter.**
- 2017 Bavassi, L., Degiorgi, S., **Laurino, J.**, Forcato, C., Pedreira, M.E., Kaczer, L. Exploring memory consolidation for novel word forms and meanings: an ERP study. 2nd Congress of "Latin American Brain Mapping Network" (LABMAN), Buenos Aires, Argentina. **Poster presenter.**

### Invited talks

2024 **BCBL 2024 Pupillometry Workshop**

Basque Center on Cognition, Brain & Language (BCBL), Donostia, Spain.

Talk (virtual): "Using Growth Curve Analysis to model pupil data".

## TEACHING AND MENTORING

### Teaching

- 2024 – present **Graduate Teaching Assistant**  
Dept. of Education, University of San Andrés, Buenos Aires, Argentina.  
Course: Cognitive Neuroscience.
- 2023 **Teaching Assistant**  
Neuromatch Academy. Course: Computational Neuroscience.
- 2023 **Teaching Assistant**  
Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.  
Course: Exactas Programa. Introduction to computational thinking and Python course for undergraduate and graduate programs.
- 2022 – 2023 **Graduate Teaching Assistant**  
Dept. of Physiology, Molecular and Cellular Biology, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.  
Courses: Genetics; Introduction to Molecular and Cellular Biology.
- 2020 – 2021 **Undergraduate Teaching Assistant**  
Dept. of Physiology, Molecular and Cellular Biology, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.  
Courses: Introduction to Molecular and Cellular Biology; Introduction to Animal Physiology.
- 2019 – 2020 **Undergraduate Teaching Assistant**  
Dept. of Biological Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.  
Course: Biological Chemistry.

### Supervision

- 2023 - present **Undergraduate thesis co-advisor**  
Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.  
Student: Dulce Jurado.  
Project: “Boundary conditions of global context modulation on word-meaning access”.

## PROFESSIONAL DEVELOPMENT

### Advanced Research Training

- 2022 **Genetics and Neurobiology of Language**  
Organizers: Kate Watkins, Simon Fisher and David Poeppel. Cold Spring Harbor Laboratory, NY, United States. Competitively selected.
- 2021 **Neural signal acquisition: practical workshop IBRO-LARC**  
International Brain Research Organization - Latin America Regional Committee (IBRO-LARC). Virtual. Competitively selected.

### Courses

- 2024 **Exploring complex networks and their applications**  
Interdisciplinary Center for Data Science and Machine Learning, Universidad de la República, Montevideo, Uruguay.

- 2024 **Machine Learning**  
Computer Dept., Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.
- 2023 **Spatial Filtering Techniques for Electroencephalography signals**  
Argentine Society for Research in Neuroscience, San Luis, Argentina.
- 2022 **Introduction to Bayesian statistical methods**  
Dept. of Ecology, Genetics and Evolution, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.
- 2021 **Programming in Python**  
School of Science and Technology of the National University of San Martín, Buenos Aires, Argentina.
- 2020 **Artificial intelligence and deep learning in physics**  
XXII Giambiagi Winter School, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.
- 2020 **Dynamic Systems and Artificial Intelligence Applied to the Data Modelling**  
Dept. of Physics, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.
- 2019 **Natural language processing with neural networks**  
Dictated by Germán Kruszewski. School of Computer Sciences, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.
- 2018 **Computational methods for studying language in the brain**  
Dictated by Liberty Hamilton. School of Computer Sciences, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.

## SERVICE

- 2022 – present **Member of the Education Committee of the Argentine Society for Research in Neuroscience (SAN).**  
Engaged in planning and developing training spaces (i.e., workshops, courses, talks) in neuroscientific topics of interest to the Argentine neuroscientific community.
- 2020 – present **Member and co-founder of the Argentine Network of Students in Neuroscience.**  
Graduate students and postdocs network dedicated to addressing the challenges encountered during academic careers. The network aims to develop practical solutions and resources for the community.
- 2024 Reviewed for Language, Cognition and Neuroscience Journal.
- 2023 – 2024 **Organizer and host of the stand “Language and Brain: The dictionary in your head.”**  
Biology Week of the Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina.  
Organized and hosted interactive science activities, fostering public engagement and hands-on learning during an educational event organized by the University of Buenos Aires.