

# Fermín Travi

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🐙 FerminT    🇦🇷 Argentinian, Italian

## Education

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| April 2022 – Ongoing | <b>PhD student in Computer Science</b><br>Title: “Artificial semantic abstractions based on eye movements during online reading experiments”<br>Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación.<br>Laboratorio de Inteligencia Artificial Aplicada (LIAA). Buenos Aires, Argentina. |
| March 2022           | <b>Licenciatura en Ciencias de la Computación (Bachelor’s degree + MSc in Computer Science)</b><br>Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Buenos Aires, Argentina.<br>8.63 average (historical average to date: 8.19)   |

## Research Experience

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| Winter 2024 | <b>Research Intern</b><br>Project: PIBE: Progression Invariant Brain Embeddings<br>Computational Psychiatry & Neuroimaging group. IBM Research. New York, USA. |
| Autumn 2022 | <b>Research Intern</b><br>Project: Efficient and scalable mobile AR application for tool detection<br>R&D department. Marposs S.p.A. Bologna, Italia.          |

## Conference and Journal Publications

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| 2024 | 1. <b>Travi, F. et al.</b> Impact of long-COVID on the local and global efficiency of brain networks in <i>Clinical Neuroimaging</i> 1 (2024), e70001.  |
| 2022 | 2. <b>Travi, F., Ruarte, G., Bujia, G. &amp; Kamienkowski, J. E.</b> ViSioNS: Visual Search in Natural Scenes Benchmark in <i>Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS)</i> (2022). Earlier version at NeurIPS’21 Workshop on Shared Visual Representations in Human and Machine Intelligence. |

## Refereed Workshops Contributions

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| 2024 | 3. Bianchi, B., <b>Travi, F.</b> & Kamienkowski, J. E. Modeling cognitive processes of natural reading with transformer-based Language Models in <i>Neural Information Processing Systems Conference: LatinX in AI (LXAI) Research Workshop 2024</i> (2024).                                      |
| 2021 | 4. <b>Travi, F., Ruarte, G., Bujia, G. &amp; Kamienkowski, J. E.</b> Benchmarking human visual search computational models in natural scenes: models comparison and reference datasets in <i>Shared Visual Representations in Human and Machine Intelligence 2021 Workshop at NeurIPS</i> (2021). |

## Talks and Posters

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| 2024 | 5. <b>Travi, F. et al.</b> PIBE: Progression Invariant Brain Embeddings in <i>Annual Congress of the Argentine Society of Neurosciences</i> (2024).   |
| 2021 | 7. <b>Travi, F., Ruarte, G., Bujia, G. &amp; Kamienkowski, J. E.</b> Benchmarking human visual search computational models in natural scenes: models comparison and reference datasets in <i>Annual Congress of the Argentine Society of Neurosciences</i> (2021). <b>(Oral Presentation)</b> . |

## Teaching Experience

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2021-	<b>Algorithms and Data Structures</b>
2024	<i>Teaching Assistant</i> <i>Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación.</i>

## Mentor Experience

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2024	<b>Co-advisor to Gabriel Leclercq, MSc thesis: 'Integration of cognitive information in language models'</b> <i>Guided research methodology, project design, and analysis. To be defended in December 2024.</i>
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## Reviewer Experience

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2022	<b>NeurIPS 2022 Track on Datasets and Benchmarks</b> <i>Two articles on the main topic of autonomous driving and visual reasoning were reviewed.</i>
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## Awards

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December 2023	<b>Travel grant</b> <i>Provided to perform an internship at IBM Research. Universidad de Buenos Aires.</i>
September 2022	<b>Secondment grant</b> <i>Provided for a three-month research secondment at Marposs S.p.A. GHAlA Project, EU Horizon.</i>
April 2022 – April 2027	<b>PhD scholarship</b> <i>National Council on Scientific and Technical Research (CONICET)</i>

## Courses

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- **NMA-NeuroAI 2024.** *Neuromatch Academy. Two-week full-time international online summer school course on NeuroAI.*
- **NMA-Deep Learning 2021.** *Neuromatch Academy. Three-week full-time international online summer school course on Deep Learning.*

## Languages

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- **International English Language Testing System (IELTS). Score: 8.0.**
- **Certificate of Proficiency in English (CPE). Grade: B.** *ESOL Examinations, University of Cambridge.*