

Fermín Travi

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🔄 FerminT 🇦🇷 Argentinian, Italian

Research Interests

Themes | Neuroscience-inspired artificial intelligence, language representation, visual behaviour
Methods | MRI, eye-tracking, machine learning, data acquisition and analysis
Applications | Cognitive modeling, natural language processing, computer vision

Education

April 2022 – Ongoing | **PhD student in Computer Science**
Title: “Artificial semantic abstractions based on eye movements during online reading experiments”
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación.
Laboratorio de Inteligencia Artificial Aplicada (LIAA). Buenos Aires, Argentina.

March 2022 | **Licenciatura en Ciencias de la Computación (Bachelor’s degree + MSc in Computer Science)**
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Buenos Aires, Argentina.
8.63 average (historical average to date: 8.19)

Research and Work Experience

Winter 2024 | **Research Intern**
Project: PIBE: Progression Invariant Brain Embeddings
Computational Psychiatry & Neuroimaging group. IBM Research. New York, USA.

Autumn 2022 | **Research Intern**
Project: Efficient and scalable mobile AR application for tool detection
R&D department. Marposs S.p.A. Bologna, Italia.

July 2021 – March 2022 | **Research Intern**
Project: Human visual search in natural scenes computational models
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación. Laboratorio de Inteligencia Artificial Aplicada (LIAA). Buenos Aires, Argentina.

2014 - 2015 | **Software Developer**
PSA Peugeot Citroën, Argentina.

Conference and Journal Publications

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

Refereed Workshops Contributions

- 2021 | 3. **Travi, F., Ruarte, G., Bujia, G. & Kamienkowski, J. E.** Benchmarking human visual search computational models in natural scenes: models comparison and reference datasets in Shared Visual Representations in Human and Machine Intelligence 2021 Workshop at NeurIPS (2021).

Talks and Posters

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| 2023 | 4. | Travi, F. et al. <i>Neural correlates of cognitive impairment phenotypes following a COVID-19 infection</i> in Annual Congress of the Argentine Society of Neurosciences (2023). |
| 2021 | 5. | Travi, F., Ruarte, G., Bujia, G. & Kamienkowski, J. E. <i>Benchmarking human visual search computational models in natural scenes: models comparison and reference datasets</i> in Annual Congress of the Argentine Society of Neurosciences (2021). (Virtual Oral Presentation) . |

Teaching Experience

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| 2023- | | Algorithms and Data Structures II |
| 2024 | | <i>Teaching Assistant</i>
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación. |
| 1Q 2022 | | Algorithms and Data Structures I |
| | | <i>Teaching Assistant</i>
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación. |
| 2Q 2021 | | Algebra (Workshop in Functional Programming) |
| | | <i>Teaching Assistant</i>
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación. |

Reviewer Experience

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

Awards

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| April 2022 – April 2027 | | PhD scholarship |
| | | <i>National Council on Scientific and Technical Research (CONICET)</i> |

Courses

- **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

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