

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

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 Citröen, Argentina.

Conference and Journal Publications

2022 | 1. **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 | 2. **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 | 3. | 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 | 4. | 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
<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> |
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Awards

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

- **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.