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 Citröen, 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). Under review.

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

2023 | 4. **Travi, F.** *et al. Neural correlates of cognitive impairment phenotypes following a COVID-19 infection* in *Annual Congress of the Argentine Society of Neurosciences* (2023).

2021 | 5. **Travi, F.**, Ruarte, G., Bujia, G. & Kamienkowski, J. E. *Benchmarking human visual search computational models in natural scenes: models comparison and reference datasets* in *Annual Congress of the Argentine Society of Neurosciences* (2021). **(Virtual Oral Presentation)**.

Teaching Experience

2023-2024 | **Algorithms and Data Structures II**
Teaching Assistant
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación.

1Q 2022 | **Algorithms and Data Structures I**
Teaching Assistant
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación.

2Q 2021 | **Algebra (Workshop in Functional Programming)**
Teaching Assistant
Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Departamento de Computación.

Reviewer Experience

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

Awards

April 2022 – April 2027 | **PhD scholarship**
National Council on Scientific and Technical Research (CONICET)

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*.