J. Matias Di Martino

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Profile

I am the Chief Scientific Officer of the Centro Nacional de Inteligencia Artificial, Full Professor at Universidad Católica del Uruguay, Adjunct Research Professor at Duke University, and Visiting Scholar at Princeton University. My areas of expertise include computer vision, image processing, machine learning, remote sensing, and AI for health applications. I taught undergraduate and graduate courses at the university level, led large-scale research projects, and published over 80 peer-reviewed scientific papers in top journals and conferences. As key personnel and PI, I contributed to securing over $15M in research funds and mentored several MSc. and Ph.D. students.

Experience

- **2026-present** — Chief Scientific Officer, Centro Nacional de Inteligencia Artificial, UY
- **2025-2026** — Department Chair (CS), UCU, UY
- **2024-present** — Full Professor (CS), UCU, UY
- **2024-present** — Adjunct Research Professor, Duke University, US
- **2024-present** — Visiting Research Scholar, Princeton University, US
- **2017-present** — Consultant (*details upon request*)
- **2019-2024** — Assistant Research Professor, Duke University, US
- **2016-2022** — Associate Professor, UdelaR, UY
- **2018-2019** — Postdoctoral Associate, Duke University, US
- **2015-2016** — Chercheur Associe, Ecole Normale Superieur, FR
- **2011-2016** — Teaching and Research Assistant, UdelaR, UY

Education

- **UdelaR, UY** — PhD in Engineering and Signal Processing, 2011-2015
- **UdelaR, UY** — Electrical Engineering, 2005-2011 (ranked 1st/164)

Fellowships

Researcher level II SNI (Sistema Nacional de Investigadores, Uruguay). Researcher level 4 PEDECIBA (in Physics and Computer Science). IPOL Editorial Board (2018-2023). I am a reviewer for some of the top AI venues and conferences (including AAAI, CVPR, the Journal of Pattern Recognition, and Nature, among others).

Research

My main research interests are Machine Learning (a.k.a. AI), Image Processing, and Computer Vision (CV). Recently, my focus has been on how to use computer vision for autism screening and behavioral phenotyping (in 2023, this work was highlighted by NIH as one of the top 5 scientific discoveries in health in the US); how NLP can be leveraged to better understand ARFID; and how CV can be exploited to improve Transcranial Magnetic Stimulation. I have 1800+ citations, an h-index 21, and published over 80 full papers in peer-reviewed international journals and venues, including health, machine learning, image processing, and optics. Please visit my Google Scholar profile for details.

Grants and Awards

Selected list (*in total I secured over 15M$ in research funds*): **Duke Institute for Brain Sciences, Research Germinator Award** (2020-2021), *Accurate, affordable, and easy-to-use navigation for transcranial magnetic stimulation*, role: co-I (PIs: Drs. Peterchev, Sapiro, Goetz, and Turner). **1R01-MH129733-01** (2023-2027), *Accurate, low-cost, trackerless neuronavigation for transcranial magnetic stimulation*, role: co-PI. **NIH:R33-MH-121549** (2021-2024), *Feeling and Body Investigators (FBI)-ARFID Division: Sensory and Somatic Exposure for Children with Avoidant Restrictive Food Intake*, role: co-I (PIs: Drs. Zucker and Sapiro). **NIH:1R01-MH120093-02** (2019-2023), *Scalable Computational Platform For Active Closed-Loop Behavioral Coding in Autism Spectrum Disorder*, role: co-I (PI: Drs. Dawson and Sapiro).

Teaching and Mentoring

I have 15+ years of teaching experience, mentored Master's and Ph.D. students, and coordinated courses with over 1000 students. I also was responsible for undergraduate and graduate courses. I gave lectures in Physics, Electrical Engineering, Computer Vision, and AI at top universities in the US, France, and Uruguay.

Languages

Spanish: native. **English:** fluent. **French & Italian:** intermediate.