

Luciano A. Magurno

Physician (MD) · Ophthalmology & Vision Research
+1 645 202 5481 • lucianomagurno@hotmail.com • Miami, FL, USA

EDUCATION

- Universidad Austral — Doctor of Medicine (MD)** | Buenos Aires, Argentina Mar 2019 – Dec 2025
- Completed the Doctor of Medicine (MD) program; graduated December 2025.
- University of Miami — B.S. in Biochemistry & Molecular Biology** | Miami, FL, USA Jan 2014 – Dec 2017
- Minors in Psychology and Philosophy. Vice President, UM Rugby Football Team.
- St. George's University — MD Program** | St. George's, Grenada Jan 2018 – May 2018

RESEARCH & PRESENTATIONS

- Researcher, Nanomedicine & Vision Group — IIMT, CONICET** | Buenos Aires, Argentina Jan 2019 – Present
- Conducts in-vitro and in-vivo ophthalmology research at the Institute for Research in Translational Medicine (IIMT), CONICET at Universidad Austral.
 - First-author article:** “Low-dose atropine for myopia progression in children: a 2017–2024 systematic review and meta-analysis of randomized placebo-controlled trials,” published in *Frontiers in Medicine* on January 2026.
 - First-author presenter, ARVO 2026:** “Periocular alpha-1-antitrypsin therapy preserves retinal homeostasis and attenuates molecular mediators of macular edema in diabetic mice.”
 - First-author presenter, ARVO 2025:** “Protective effects of α 1-antitrypsin in high glucose-induced stress in human Müller cells: implications for diabetic retinopathy.”
 - First-author presenter, ESC 2025:** “Efficacy of PCSK9 inhibitors combined with statins vs. statin monotherapy for secondary cardiovascular prevention.”
 - Co-author presenter, ARVO 2025:** “Alpha-1-antitrypsin closely interacts with Thrombospondin 1 in a mouse model of corneal alkali injury. Potential impact on ocular angiogenesis.”
 - Co-author presenter, ARVO 2023:** “Aquaporin4 expression on ARPE-19 cells exposed to high glucose and Alpha-1 Antitrypsin.”
 - Co-author presenter, ARVO 2023:** “ALPHA-1 ANTITRYPSIN INCREASES EXPRESSION OF PROTEINS INVOLVED IN NPD1 SYNTHESIS OF CELLS EXPOSED TO HIGH GLUCOSE.”
- Research Assistant, Biochemistry Department — University of Miami** | Miami, FL, USA Jun 2015 – May 2017
- Co-author article:** “Formulation of amphiphilic antiviral drugs into new dimensional nanovesicle structures,” published in *ACS Omega* on June 2022.

CLINICAL EXPERIENCE

- Trauma Surgery & ICU Observership — Ryder Trauma Center** | Miami, FL, USA Jan 2025
- Observed trauma surgery and ICU teams during clinical rounds and emergency procedures.
- Ophthalmology Observership — Bascom Palmer Eye Institute** | Miami, FL, USA Jan 2019 – Feb 2019
- Shadowed ophthalmologists across clinic and operating-room settings.
- International Clinical Shadowing Fellowship — Hospital General de Almansa** | Almansa, Spain Jun 2017 – Aug 2017
- Completed 100+ hours observing clinical and surgical care across core medical specialties.
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TEACHING & LEADERSHIP

Pharmacology Teaching Assistant — Universidad Austral | Buenos Aires, Argentina *Feb 2024 – Dec 2025*

- Leads pharmacology practical sessions for medical students as part of the formal curriculum.
- Explains key concepts, guides case-based exercises, and supports course instructors.

Fitness Room Supervisor — University of Miami Wellness Center | Miami, FL, USA *Aug 2015 – Dec 2017*

- Supervised facility operations and ensured safety during student shifts.

COMMUNITY INVOLVEMENT

Hospice Volunteer — Seasons Hospice | Miami, FL, USA *Jul 2016 – Dec 2017*

- Provided 200+ hours of companionship to terminally ill patients.
- Supported children through the Camp Kangaroo bereavement program.

SKILLS, CERTIFICATIONS & LANGUAGES

Skills: Laboratory techniques · Scientific writing · In-vitro & in-vivo research methods

Certifications: ARVO Member · ACLS Certified (Jun 2025) · CPR/AED Certified

Languages: Spanish (Native) · English (Fluent) · Italian (Advanced)