

RESUME

Julián Nicolás Acosta, MD

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CONTACT INFORMATION

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Location: Boston, MA

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Immigration Status: U.S. Permanent Resident

PROFESSIONAL SUMMARY

Health AI scientist and clinical product leader with 40+ publications (h-index: 23) and experience spanning clinical, academic, and industry roles.

PROFESSIONAL EXPERIENCE

Senior Clinical Specialist, Consumer Health AI **2026–Present**
Google

Director of Clinical AI (promoted from Research Associate Feb 2025) **2024–2026**
Rajpurkar Lab, Dept. of Biomedical Informatics, Harvard Medical School

- Built and validated HeadCT-ONE, an automated metric for head CT report generation evaluation using ontology-normalized entity extraction, improving alignment with radiologists' evaluation of head CT reports
- Led evaluation of multimodal AI system for chest x-ray report generation including preference testing and multi-reader AI-enabled reporting studies with 10+ radiologists
- Led scientific ideation and grant writing of NIH R01 proposal (awarded, top 3 percentile score)

Scientist (part-time) **2024–2026**
a2z Radiology AI

- Collaborated with engineering and clinical teams to develop and validate AI models for radiology, advancing products from concept through regulatory submission process
- Led FDA and EU regulatory interactions for AI medical device clearance, including 510(k) clearance of a2z-Unified-Triage, a first-of-its-kind device analyzing abdomen/pelvis CT for 7 urgent conditions for triage and prioritization
- Designed and executed ground truthing and reader studies for validation of radiology AI models

Senior Clinical Research Scientist (promoted from Clinical Data Scientist Jul 2023) **2022–2024**
Rad AI Inc.

- Collaborated with product managers, engineers, and clinical teams to develop and deploy AI-powered products to radiology practices nationwide
- Trained radiology summarization language models using PyTorch in multi-GPU settings on 10M+ radiology reports
- Built company's first large multi-task instruction tuning radiology dataset with >1M examples
- Led the development of a system to detect recommendation text in radiology reports using RoBERTa-based token classification with configurable redaction capabilities for specific radiology guidelines/body parts
- Implemented end-to-end ML pipelines using Metaflow and Sagemaker

Postdoctoral Associate **2019–2022**
Department of Neurology, Yale School of Medicine

- Published 10+ papers on stroke genetics, neuroimaging, and cardiovascular health disparities
- Analyzed large-scale datasets (All of Us, UK Biobank) for genomic and epidemiological research

Neurology Resident **2015–2019**
Fleni, Buenos Aires, Argentina

- 4-year residency including 1 year of Internal Medicine and 3 years of Neurology, providing comprehensive inpatient and outpatient care

EDUCATION

Postdoctoral Fellowship, Yale University School of Medicine **2019–2022**
Population Genetics / Stroke / Neuroimaging / Machine Learning

Neurology Residency, Fleni, Buenos Aires, Argentina **2015–2019**

Doctor of Medicine (MD), National University of the Northeast, Argentina **2008–2014**
GPA 9.11/10 (US 3.98/4), Magna cum laude

SELECTED CERTIFICATIONS

CITI Good Clinical Practice **2025**
Health Informatics Mastertrack Certificate, Yale University **2021**
AI for Medicine Specialization, deeplearning.ai **2020**
AI for Healthcare Nanodegree, Udacity **2020**

RESEARCH

h-index: 23 | **Publications**: 40+ peer-reviewed articles
Profiles: Google Scholar | PubMed

SELECTED HONORS & AWARDS

Forty Under 40, Radiology Business **2025**
Paul Dudley White International Scholar Award, International Stroke Conference **2022**
Mordecai Y. T. Globus New Investigator Award, International Stroke Conference **2022**
Best Presentation in Clinical Physiology, Argentinian Society of Medicine **2013**

TECHNICAL SKILLS

Programming: Python (PyTorch, HuggingFace, OpenAI, pandas, scikit-learn), R, SQL
ML/AI: Multi-GPU training, LLMs, computer vision, NLP, model deployment (AWS/Azure)
Clinical Research: Study design, IRB protocols, statistical analysis, scientific writing
Regulatory: FDA 510(k) submissions, EU MDR documentation, Breakthrough Device interactions, Quality Management System (QMS), ISO 13485
Cloud/Data: AWS, Google Cloud, Azure; large-scale multimodal medical datasets

TEACHING & LEADERSHIP

- **Mentor**, Medical AI Bootcamp, Harvard Medical School (2024–2026)
- **Instructor**, AI Applied to Health Sciences (online), Universidad Nacional del Litoral (2023–2024)

LANGUAGES

Spanish (native), English (fluent, TOEFL 112/120)