

# CURRICULUM VITAE

Julián Nicolás Acosta, MD

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## CONTACT INFORMATION

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**Immigration Status:** U.S. Permanent Resident

## PROFESSIONAL SUMMARY

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Health AI scientist and clinical product leader with a strong publication record (40+ publications, h-index 23) and a background spanning clinical, academic, and industry roles.

## ACADEMIC & INDUSTRY APPOINTMENTS

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<b>2026–Present</b>	<b>Senior Clinical Specialist, Consumer Health AI</b> <i>Google</i>
<b>2024–2026</b>	<b>Director of Clinical AI</b> (promoted from Research Associate Feb 2025) <i>Rajpurkar Lab, Dept. of Biomedical Informatics, Harvard Medical School</i>
<b>2024–2026</b>	<b>Scientist</b> (part-time) <i>a2z Radiology AI</i>
<b>2022–2024</b>	<b>Senior Clinical Research Scientist</b> (promoted from Clinical Data Scientist Jul 2023) <i>Rad AI Inc.</i>
<b>2019–2022</b>	<b>Postdoctoral Associate</b> <i>Department of Neurology, Yale School of Medicine</i>
<b>2015–2019</b>	<b>Neurology Resident</b> <i>Fleni, Buenos Aires, Argentina</i>
<b>2014</b>	<b>Research Associate</b> <i>Laboratory for Biological and Artificial Learning (LBAL), Institute of Basic Science and Experimental Medicine (ICBME), Hospital Italiano de Buenos Aires, Buenos Aires, Argentina</i>

## EDUCATION & TRAINING

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<b>2019–2022</b>	<b>Postdoctoral Fellowship</b> , Yale University School of Medicine, New Haven, CT, USA <i>Population Genetics / Stroke / Neuroimaging / Machine Learning</i>
<b>2015–2019</b>	<b>Neurology Residency</b> , Fleni, Buenos Aires, Argentina
<b>2008–2014</b>	<b>Doctor of Medicine (MD)</b> , National University of the Northeast, Corrientes, Argentina <i>GPA 9.11/10 (US 3.98/4)</i>

## CERTIFICATIONS & OTHER TRAINING

- 2025**                    **CITI Good Clinical Practice**  
*CITI Program*  
*Issued Jun 2025 · Expires Jun 2028 · Credential ID 69995290*
- 2021**                    **Health Informatics Mastertrack Certificate**  
*Yale University School of Public Health, through Coursera*  
*Courses: Introduction to Health Informatics, Part 1; Introduction to Health Informatics, Part 2; Clinical Database and Ontology; Introduction to Natural Language Processing and Data Mining*
- 2020**                    **AI for Medicine Specialization**  
*deeplearning.ai, through Coursera (Verification)*
- 2020**                    **AI for Healthcare Nanodegree**  
*Nanodegree Program from Udacity (Verification)*

## GRANT CONTRIBUTIONS

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- 2025–2028**            **Integrating Clinical Knowledge: A Multimodal AI System for Reliable Head CT Understanding and Interpretation**  
NIH/NIBIB R01 (1R01EB036501-01A1) · **Funded** · PI: Pranav Rajpurkar · Role: Contributor
- 2025**                    **A Clinical Environment Simulator Framework for Healthcare AI Performance Assessment**  
NIH · **Pending** · PI: Pranav Rajpurkar · Role: Contributor
- 2021**                    **Polygenic Susceptibility to Hypertension in ICH**  
Yale AHA/Bugher Center for Hemorrhagic Stroke Research · **Completed** · Role: Bugher Fellow
- 2012–2013**            **Undergraduate Research Fellowships (2 awards)**  
Science and Technology Committee, National University of the Northeast · **Completed** · Role: Research Fellow

## HONORS & AWARDS

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- 2025**                    **Forty Under 40** — Radiology Business
- 2022**                    **Paul Dudley White International Scholar Award** (Highest Ranked Abstract from the United States) — International Stroke Conference. For: Observed And Genomic Life's Simple 7 Influence Brain Health-related Neuroimaging Traits In Persons Without Stroke Or Dementia.
- 2022**                    **Mordecai Y. T. Globus New Investigator Award** — International Stroke Conference. For: Observed And Genomic Life's Simple 7 Influence Brain Health-related Neuroimaging Traits In Persons Without Stroke Or Dementia.
- 2020**                    **Paul Dudley White International Scholar Award** (Co-author in the Highest Ranked Abstract from United States) — International Stroke Conference. For: Sex and Genetic Susceptibility Synergistically Influence Risk of Stroke and Myocardial Infarction in Middle-Aged Persons without Risk Factors.
- 2014**                    **Magna cum laude** — MD degree, National University of the Northeast.
- 2013**                    **Best Presentation in Clinical Physiology** — XXI Argentinian Society of Medicine (SAM) Annual Meeting, Buenos Aires. For: Anthropometric and central hemodynamic variables predict blood pressure in a group of normotensive university students.

## TEACHING EXPERIENCE

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- 2024–2026**            **Mentor** — Medical AI Bootcamp, Rajpurkar Lab, Harvard Medical School
- 2023-2024**            **Instructor** — "Inteligencia Artificial Aplicada a Ciencias de la Salud" (online course), Universidad Nacional del Litoral (Argentina)
- 2021**                    **Workshop Instructor** — "Bioinformatics," Neurocritical Care Society Meeting. Virtual Conference.
- 2019**                    **Workshop Instructor** — "Bioinformatics and Machine Learning for Data-Driven Research," Neurocritical Care Society Meeting. Vancouver, British Columbia, Canada.
- 2010–2013**            **Teaching Assistant** — Physiology, National University of the Northeast School of Medicine
- 2010–2013**            **Teaching Assistant** — Pharmacology, National University of the Northeast School of Medicine

## MENTORSHIP & SUPERVISION

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- 2024–2026**            At **Harvard**, mentored >10 trainees, including undergraduates, graduate students, postdocs, and medical AI bootcamp participants.
- 2019–2022**            At **Yale**, mentored >6 trainees, including graduate students, medical students, and postdocs.
- 2015–2019**            At **Fleni**, mentored >10 trainees, including neurology and internal medicine residents, and medical students.

## PROFESSIONAL SERVICE

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2025	<b>Ad-hoc grant reviewer:</b> Swiss National Science Foundation (SNSF)
2021–2022	<b>Review Editor:</b> Frontiers in Neurology, Stroke section
2020–Present	<b>Ad-hoc reviewer:</b> <i>Neurology, Stroke, Journal of the American Heart Association, Neurocritical Care, Scientific Reports, Frontiers in Pharmacology, International Journal of Stroke, Frontiers in Genetics, JAMIA Open</i> , among others

## PUBLICATIONS

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### PEER-REVIEWED JOURNAL ARTICLES

1. Zhou H-Y, **Acosta JN**, Adithan S, Datta S, Topol EJ, Rajpurkar P. MedVersa: A Generalist Foundation Model for Diverse Medical Imaging Tasks. *NEJM AI*. 2026. (In press)
2. Luo L, Kim SE, Zhang X, Kernbach JM, Kenia R, **Acosta JN**, Nathanson LA, Haimovich AD, Rodman A, Goh E, Chen JH, Shah N, Kim D, Zou J, Mahmood F, Kather JN, Lungren M, Natarajan V, Topol EJ, Rajpurkar P. A Clinical Environment Simulator Framework for Healthcare AI Performance Assessment. *Nat Med*. 2026. (In press)
3. Renedo D, Koo A, Sujijantararat N, Clocchiatti-Tuozzo S, Huo S, **Acosta JN**, Hebert R, Gunel M, Sansing L, Sheth KN, Falcone G, Matouk C, Rivier CA. SLAMF1 as a Risk Biomarker for Nontraumatic SAH: Evidence From a Multiomics Study. *Stroke*. 2025 Nov 12. doi:10.1161/STROKEAHA.125.052604. Epub ahead of print. PMID: 41221640.
4. Renedo D, Barak T, DeLong J, **Acosta JN**, Sujijantararat N, Koo A, Rivier CA, Clocchiatti-Tuozzo S, Huo S, Antonios J, Giles J, Falcone GJ, Sheth KN, Hebert R, Gunel M, Sansing LH, Navaratnam DS, Matouk C. Characterizing Stroke Clots Using Single-Cell Sequencing. *J Am Heart Assoc*. 2025 Sep 2;14(17):eJAHA2025041738T. doi:10.1161/JAHA.125.041738. Epub 2025 Aug 29. PMID: 40878981.
5. Adams SJ, **Acosta JN**, Rajpurkar P. How generative AI voice agents will transform medicine. *NPJ Digit Med*. 2025 Jun 12;8(1):353. doi:10.1038/s41746-025-01776-y. PMID: 40506466; PMCID: PMC12162835.
6. Demarais ZS, Conlon C, Rivier CA, Clocchiatti-Tuozzo S, Renedo D, Torres-Lopez V, Sheth KN, Meeker D, Zhao H, Ohno-Machado L, **Acosta JN**, Huo S, Falcone GJ. Polygenic Susceptibility to Diabetes and Poor Glycemic Control in Stroke Survivors. *Neurology*. 2025 Feb 25;104(4):e210276. doi:10.1212/WNL.0000000000210276. Epub 2025 Jan 31. PMID: 39889253.
7. Rivier CA, Clocchiatti-Tuozzo S, Huo S, Torres-Lopez V, Renedo D, Sheth KN, Falcone GJ, **Acosta JN**. Genal: a Python toolkit for genetic risk scoring and Mendelian randomization. *Bioinform Adv*. 2024 Dec 24;5(1):vbae207. doi:10.1093/bioadv/vbae207. PMID: 39776894; PMCID: PMC11706532.
8. Rivier CA, **Acosta JN**, Leasure AC, Forman R, Sharma R, de Havenon A, Spatz ES, Inzucchi SE, Kernan WN, Falcone GJ, Sheth KN. Secondary Prevention in Patients With Stroke Versus Myocardial Infarction: Analysis of 2 National Cohorts. *J Am Heart Assoc*. 2024 May 7;13(9):e033322. doi:10.1161/JAHA.123.033322. Epub 2024 Apr 19. PubMed PMID: 38639369; PubMed Central PMCID: PMC11179946.
9. Han R, **Acosta JN**, Shakeri Z, Ioannidis JPA, Topol EJ, Rajpurkar P. Randomised controlled trials evaluating artificial intelligence in clinical practice: a scoping review. *Lancet*

*Digit Health.* 2024 May;6(5):e367-e373. doi:10.1016/S2589-7500(24)00047-5. PubMed PMID: 38670745; PubMed Central PMCID: PMC11068159.

10. Renedo D, **Acosta JN**, Leasure AC, Sharma R, Krumholz HM, de Havenon A, Alahdab F, Aravkin AY, Aryan Z, Bärnighausen TW, Basu S, Burkart K, Coberly K, Criqui MH, Dai X, Desai R, Dharmaratne SD, Doshi R, Elgendy IY, Feigin VL, Filip I, Gad MM, Ghozy S, Hafezi-Nejad N, Kalani R, Karaye IM, Kisa A, Krishnamoorthy V, Lo W, Mestrovic T, Miller TR, Misganaw A, Mokdad AH, Murray CJL, Natto ZS, Radfar A, Ram P, Roth GA, Seylani A, Shah NS, Sharma P, Sheikh A, Singh JA, Song S, Sotoudeh H, Vervoort D, Wang C, Xiao H, Xu S, Zand R, Falcone GJ, Sheth KN. Burden of Ischemic and Hemorrhagic Stroke Across the US From 1990 to 2019. *JAMA Neurol.* 2024 Mar 4;81(4):394-404. doi:10.1001/jamaneurol.2024.0190. [Epub ahead of print] PubMed PMID: 38436973; PubMed Central PMCID: PMC10913004.
11. **Acosta JN**, Haider SP, Rivier C, Leasure AC, Sheth KN, Falcone GJ, Payabvash S. Blood pressure-related white matter microstructural disintegration and associated cognitive function impairment in asymptomatic adults. *Stroke Vasc Neurol.* 2023 Oct;8(5):358-367. doi:10.1136/svn-2022-001929. Epub 2023 Mar 6. PubMed PMID: 36878613; PubMed Central PMCID: PMC10647862.
12. Rivier CA, Szejkó N, Renedo D, Noche RB, **Acosta JN**, Both CP, Sharma R, Torres-Lopez VM, Payabvash S, de Havenon A, Sheth KN, Gill TM, Falcone GJ. Polygenic Susceptibility to Hypertension and Cognitive Performance in Middle-aged Persons Without Stroke or Dementia. *Neurology.* 2023 Aug 1;101(5):e512-e521. doi:10.1212/WNL.0000000000207427. Epub 2023 Jun 9. PubMed PMID: 37295956; PubMed Central PMCID: PMC10401683.
13. Ye Y, Noche RB, Szejkó N, Both CP, **Acosta JN**, Leasure AC, Brown SC, Sheth KN, Gill TM, Zhao H, Falcone GJ. A genome-wide association study of frailty identifies significant genetic correlation with neuropsychiatric, cardiovascular, and inflammation pathways. *Geroscience.* 2023 Aug;45(4):2511-2523. doi:10.1007/s11357-023-00771-z. Epub 2023 Mar 16. PubMed PMID: 36928559; PubMed Central PMCID: PMC10651618.
14. Renedo D, **Acosta JN (co-first author)**, Koo AB, Rivier C, Sujjantararat N, de Havenon A, Sharma R, Gill TM, Sheth KN, Falcone GJ, Matouk CC. Higher Hospital Frailty Risk Score Is Associated With Increased Risk of Stroke: Observational and Genetic Analyses. *Stroke.* 2023 Jun;54(6):1538-1547. doi:10.1161/STROKEAHA.122.041891. Epub 2023 May 22. PubMed PMID: 37216451; PubMed Central PMCID: PMC10212531.
15. Kaltenhauser S, Weber CF, Lin H, Mozayan A, Malhotra A, Constable RT, **Acosta JN**, Falcone GJ, Taylor SN, Ment LR, Sheth KN, Payabvash S. Association of Body Mass Index and Waist Circumference With Imaging Metrics of Brain Integrity and Functional Connectivity in Children Aged 9 to 10 Years in the US, 2016-2018. *JAMA Netw Open.* 2023 May 1;6(5):e2314193. doi:10.1001/jamanetworkopen.2023.14193. PubMed PMID: 37200030; PubMed Central PMCID: PMC10196880.
16. **Acosta JN**, Both CP, Demarais ZS, Conlon CJ, Leasure AC, Torres-Lopez VM, de Havenon A, Petersen NH, Gill TM, Sansing LH, Sheth KN, Falcone GJ. Polygenic Susceptibility to Hypertension and Blood Pressure Control in Stroke Survivors. *Neurology.* 2023 Apr 11;100(15):e1587-e1597. doi:10.1212/WNL.0000000000206763. Epub 2023 Jan 23. PubMed PMID: 36690452; PubMed Central PMCID: PMC10103110.
17. Xie Y, **Acosta JN (co-first author)**, Ye Y, Demarais ZS, Conlon CJ, Chen M, Zhao H, Falcone GJ. Whole-Exome Sequencing Analyses Support a Role of Vitamin D Metabolism in Ischemic Stroke. *Stroke.* 2023 Mar;54(3):800-809. doi:10.1161/STROKEAHA.122.040883. Epub 2023 Feb 10. PubMed PMID: 36762557;

PubMed Central PMCID: PMC10467223.

18. **Acosta JN**, Falcone GJ, Rajpurkar P, Topol EJ. Multimodal biomedical AI. *Nat Med*. 2022 Sep;28(9):1773-1784. doi:10.1038/s41591-022-01981-2. Epub 2022 Sep 15. Review. PubMed PMID: 36109635.
19. Vanent KN, Leasure AC, **Acosta JN**, Kuohn LR, Woo D, Murthy SB, Kamel H, Messé SR, Mullen MT, Cohen JB, Cohen DL, Townsend RR, Petersen NH, Sansing LH, Gill TM, Sheth KN, Falcone GJ. Association of Chronic Kidney Disease With Risk of Intracerebral Hemorrhage. *JAMA Neurol*. 2022 Sep 1;79(9):911-918. doi:10.1001/jamaneurol.2022.2299. PubMed PMID: 35969388; PubMed Central PMCID: PMC9379821.
20. Shah VA, Thompson RE, Yenokyan G, **Acosta JN**, Avadhani R, Dlugash R, McBee N, Li Y, Hansen BM, Ullman N, Falcone G, Awad IA, Hanley DF, Ziai WC. One-Year Outcome Trajectories and Factors Associated with Functional Recovery Among Survivors of Intracerebral and Intraventricular Hemorrhage With Initial Severe Disability. *JAMA Neurol*. 2022 Sep 1;79(9):856-868. doi:10.1001/jamaneurol.2022.1991. PubMed PMID: 35877105; PubMed Central PMCID: PMC9316056.
21. **Acosta JN**, Falcone GJ, Rajpurkar P. The Need for Medical Artificial Intelligence That Incorporates Prior Images. *Radiology*. 2022 Aug;304(2):283-288. doi:10.1148/radiol.212830. Epub 2022 Apr 19. Review. PubMed PMID: 35438563.
22. Haider SP, Qureshi AI, Jain A, Tharmaseelan H, Berson ER, Majidi S, Filippi CG, Mak A, Werring DJ, **Acosta JN**, Malhotra A, Kim JA, Sansing LH, Falcone GJ, Sheth KN, Payabvash S. The coronal plane maximum diameter of deep intracerebral hemorrhage predicts functional outcome more accurately than hematoma volume. *Int J Stroke*. 2022 Aug;17(7):777-784. doi:10.1177/17474930211050749. Epub 2021 Oct 13. PubMed PMID: 34569877; PubMed Central PMCID: PMC9005571.
23. Leasure AC, **Acosta JN**, Sansing LH, Sheth KN, Cohen JM, Falcone GJ. Association of lichen planus with cardiovascular disease: A combined analysis of the UK Biobank and All of Us Study. *J Am Acad Dermatol*. 2022 Aug;87(2):454-456. doi:10.1016/j.jaad.2021.09.030. Epub 2021 Sep 22. PubMed PMID: 34562549.
24. Szejko N, **Acosta JN (co-first author)**, Both CP, Leasure AC, Matouk CC, Sansing LH, Gill TM, Zhao H, Sheth KN, Falcone GJ. Genetically-Proxied Levels of Vitamin D and Risk of Intracerebral Hemorrhage. *J Am Heart Assoc*. 2022 Jul 5;11(13):e024141. doi:10.1161/JAHA.121.024141. Epub 2022 Jun 22. PubMed PMID: 35730641; PubMed Central PMCID: PMC9333362.
25. **Acosta JN**, Both CP, Rivier C, Szejko N, Leasure AC, Gill TM, Payabvash S, Sheth KN, Falcone GJ. Analysis of Clinical Traits Associated With Cardiovascular Health, Genomic Profiles, and Neuroimaging Markers of Brain Health in Adults Without Stroke or Dementia. *JAMA Netw Open*. 2022 May 2;5(5):e2215328. doi:10.1001/jamanetworkopen.2022.15328. PubMed PMID: 35622359; PubMed Central PMCID: PMC9142873.
26. Renedo D, **Acosta JN**, Sujijantararat N, Antonios JP, Koo AB, Sheth KN, Matouk CC, Falcone GJ. Carotid Artery Disease Among Broadly Defined Underrepresented Groups: The All of Us Research Program. *Stroke*. 2022 Mar;53(3):e88-e89. doi:10.1161/STROKEAHA.121.037554. Epub 2022 Feb 3. PubMed PMID: 35109680; PubMed Central PMCID: PMC8944776.
27. **Acosta JN**, Leasure AC, Sheth KN, Falcone GJ. The authors reply. *Crit Care Med*. 2022

Feb 1;50(2):e215-e216. doi:10.1097/CCM.0000000000005388. PubMed PMID: 35100204; PubMed Central PMCID: PMC8842829.

28. **Acosta JN**, Both CP, Szejko N, Leasure AC, Abdelhakim S, Torres-Lopez VM, Brown SC, Matouk CC, Gunel M, Sheth KN, Falcone GJ. Genetically Determined Low-Density Lipoprotein Cholesterol and Risk of Subarachnoid Hemorrhage. *Ann Neurol.* 2022 Jan;91(1):145-149. doi:10.1002/ana.26250. Epub 2021 Nov 1. PubMed PMID: 34709661.
29. **Acosta JN**, Leasure AC, Both CP, Szejko N, Brown SC, Torres-Lopez VM, Abdelhakim S, Schindler J, Petersen N, Sansing LH, Gill TM, Sheth KN, Falcone GJ. Cardiovascular Health Disparities in Racial and Other Underrepresented Groups: Initial Results From the All of Us Research Program. *J Am Heart Assoc.* 2021 Sep 7;10(17):e021724. doi:10.1161/JAHA.121.021724. Epub 2021 Aug 25. PubMed PMID: 34431358; PubMed Central PMCID: PMC8649271.
30. Haider SP, Qureshi AI, Jain A, Tharmaseelan H, Berson ER, Zeevi T, Majidi S, Filippi CG, Iseke S, Gross M, **Acosta JN**, Malhotra A, Kim JA, Sansing LH, Falcone GJ, Sheth KN, Payabvash S. Admission computed tomography radiomic signatures outperform hematoma volume in predicting baseline clinical severity and functional outcome in the ATACH-2 trial intracerebral hemorrhage population. *Eur J Neurol.* 2021 Sep;28(9):2989-3000. doi:10.1111/ene.15000. Epub 2021 Jul 18. PubMed PMID: 34189814; PubMed Central PMCID: PMC8818333.
31. **Acosta JN**, Szejko N, Falcone GJ. Mendelian Randomization in Stroke: A Powerful Approach to Causal Inference and Drug Target Validation. *Front Genet.* 2021;12:683082. doi:10.3389/fgene.2021.683082. eCollection 2021. Review. PubMed PMID: 34456968; PubMed Central PMCID: PMC8387928.
32. Ammar AA, Ammar MA, Owusu KA, Brown SC, Kaddouh F, Elsamadicy AA, **Acosta JN**, Falcone GJ. Andexanet Alfa Versus 4-Factor Prothrombin Complex Concentrate for Reversal of Factor Xa Inhibitors in Intracranial Hemorrhage. *Neurocrit Care.* 2021 Aug;35(1):255-261. doi:10.1007/s12028-020-01161-5. Epub 2021 Jan 6. PubMed PMID: 33403588; PubMed Central PMCID: PMC10273779.
33. Leasure AC, **Acosta JN**, Both C, Szejko N, Brown SC, Sheth KN, Falcone GJ. Stroke Disparities Among Nonracial Minorities in the All of Us Research Program. *Stroke.* 2021 Aug;52(8):e488-e490. doi:10.1161/STROKEAHA.121.034903. Epub 2021 Jun 18. PubMed PMID: 34139858; PubMed Central PMCID: PMC8316290.
34. **Acosta JN**, Leasure AC, Kuohn LR, Both CP, Petersen NH, Sansing LH, Matouk CC, Testai F, Langefeld CD, Woo D, Kamel H, Murthy SB, Qureshi A, Mayer SA, Sheth KN, Falcone GJ. Admission Hemoglobin Levels Are Associated With Functional Outcome in Spontaneous Intracerebral Hemorrhage. *Crit Care Med.* 2021 May 1;49(5):828-837. doi:10.1097/CCM.0000000000004891. PubMed PMID: 33591003; PubMed Central PMCID: PMC8611893.
35. **Acosta JN**, Szejko N, Both CP, Vanent K, Noche RB, Gill TM, Matouk CC, Sheth KN, Gunel M, Falcone GJ. Genetically Determined Smoking Behavior and Risk of Nontraumatic Subarachnoid Hemorrhage. *Stroke.* 2021 Jan;52(2):582-587. doi:10.1161/STROKEAHA.120.031622. Epub 2021 Jan 14. PubMed PMID: 33440997; PubMed Central PMCID: PMC7856108.
36. Kuohn LR, Leasure AC, **Acosta JN**, Vanent K, Murthy SB, Kamel H, Matouk CC, Sansing LH, Falcone GJ, Sheth KN. Cause of death in spontaneous intracerebral hemorrhage survivors: Multistate longitudinal study. *Neurology.* 2020 Nov 17;95(20):e2736-e2745.

- doi:10.1212/WNL.0000000000010736. Epub 2020 Sep 11. PubMed PMID: 32917797; PubMed Central PMCID: PMC7734723.
37. Schnell S, Marrodan M, **Acosta JN**, Bonamico L, Goicochea MT. Trigeminal Neuralgia Crisis - Intravenous Phenytoin as Acute Rescue Treatment. *Headache*. 2020 Nov;60(10):2247-2253. doi:10.1111/head.13963. Epub 2020 Sep 27. PubMed PMID: 32981076.
  38. Villamil F, Ruella M, Perez A, Millar Verneti P, Paday Formenti ME, **Acosta JN**, Goicochea MT. Traumatic vs Spontaneous Cerebrospinal Fluid Hypotension Headache: Our experience in a series of 137 cases. *Clin Neurol Neurosurg*. 2020 Nov;198:106140. doi:10.1016/j.clineuro.2020.106140. Epub 2020 Aug 7. PubMed PMID: 32791437.
  39. Falcone GJ, Kirsch E, **Acosta JN**, Noche RB, Leasure A, Marini S, Chung J, Selim M, Meschia JF, Brown DL, Worrall BB, Tirschwell DL, Jagiella JM, Schmidt H, Jiménez-Conde J, Fernández-Cadenas I, Lindgren A, Slowik A, Gill D, Holmes M, Phuah CL, Petersen NH, Matouk Md CN, Gunel M, Sansing L, Bennett D, Chen Z, Sun LL, Clarke R, Walters RG, Gill TM, Biffi A, Kathiresan S, Langefeld CD, Woo D, Rosand J, Sheth KN, Anderson CD. Genetically Elevated LDL Associates with Lower Risk of Intracerebral Hemorrhage. *Ann Neurol*. 2020 Jul;88(1):56-66. doi:10.1002/ana.25740. Epub 2020 May 7. PubMed PMID: 32277781; PubMed Central PMCID: PMC7523882.
  40. **Acosta JN**, Brown SC, Falcone GJ. Genetic Variation and Response to Neurocritical Illness: a Powerful Approach to Identify Novel Pathophysiological Mechanisms and Therapeutic Targets. *Neurotherapeutics*. 2020 Apr;17(2):581-592. doi:10.1007/s13311-020-00837-2. Review. PubMed PMID: 31975153; PubMed Central PMCID: PMC7283396.
  41. Dhar R, Falcone GJ, Chen Y, Hamzehloo A, Kirsch EP, Noche RB, Roth K, **Acosta JN**, Ruiz A, Phuah CL, Woo D, Gill TM, Sheth KN, Lee JM. Deep Learning for Automated Measurement of Hemorrhage and Perihematomal Edema in Supratentorial Intracerebral Hemorrhage. *Stroke*. 2020 Feb;51(2):648-651. doi:10.1161/STROKEAHA.119.027657. Epub 2019 Dec 6. PubMed PMID: 31805845; PubMed Central PMCID: PMC6993878.
  42. **Acosta JN**, Ricciardi ME, Alessandro L, Carnevale M, Farez MF, Nagel V, Allegri RF, Varela F. Diagnosis of Rapidly Progressive Dementia in a Referral Center in Argentina. *Alzheimer Dis Assoc Disord*. 2020 Jan-Mar;34(1):54-58. doi:10.1097/WAD.0000000000000337. PubMed PMID: 31464690.
  43. **Acosta JN**, Brown SC, Falcone GJ. Genetic underpinnings of recovery after stroke: an opportunity for gene discovery, risk stratification, and precision medicine. *Genome Med*. 2019 Sep 13;11(1):58. doi:10.1186/s13073-019-0671-5. PubMed PMID: 31519204; PubMed Central PMCID: PMC6743185.
  44. Marrodan M, **Acosta JN**, Alessandro L, Fernandez VC, Carnero Contentti E, Arakaki N, Kohler AA, Fiol MP, Ameriso SF, Correale J. Clinical and imaging features distinguishing Susac syndrome from primary angiitis of the central nervous system. *J Neurol Sci*. 2018 Dec 15;395:29-34. doi:10.1016/j.jns.2018.09.029. Epub 2018 Sep 26. PubMed PMID: 30273791.
  45. Alessandro L, Pastor Rueda JM, Wilken M, Querol L, Marrodán M, **Acosta JN**, Rivero A, Barroso F, Farez MF. Differences between acute-onset chronic inflammatory demyelinating polyneuropathy and acute inflammatory demyelinating polyneuropathy in adult patients. *J Peripher Nerv Syst*. 2018 Sep;23(3):154-158. doi:10.1111/jns.12266. Epub 2018 Jun 25. PubMed PMID: 29603827.
  46. **Acosta JN**, Servin R, Bertos FG. Introduction to the neurobiology and neurophysiology

of autism spectrum disorder. *Rev Chil Neuropsicol.* 2016;11(2):28-33.

47. Pizzorno JA, Perna ER, Rivero MI, **Acosta JN**, Bártoli J. Anthropometric and central hemodynamic variables predict blood pressure in a group of normotensive university students. *Revista Argentina de Medicina.* 2015;3(7):52-56. (ISSN 1515-3460).
48. **Acosta JN**, Servin R. Firearm wounds in pediatric patients. *Rev Fac Med UNNE.* 2014;XXXIV(1):34-39. (ISSN-0326-7083).

#### CONFERENCE PROCEEDINGS

1. Zhang X, **Acosta JN**, Yang X, Adithan S, Luo L, Zhou HY, Miller J, Huang O, Zhou Z, Hamamci IE, Bannur S, Bouzid K, Zhang X, Meng Z, Nicolson A, Koopman B, Baek I, Ko H, Ranjit MP, srivastav S, Sambanthan SG, Rajpurkar P. Automated Chest X-ray Report Generation Remains Unsolved. Pacific Symposium of Biocomputing 2026, Hawaii, United States.
2. **Acosta JN**, Adams SJ, Kernbach JM, Hardy R, Kim SE, Luo L, Zhang X, Johri S, Baharoon M, Rajpurkar P. Voice-guided Orchestrated Intelligence for Clinical Evaluation (VOICE): A Voice AI Agent System for Prehospital Stroke Assessment. *2025 Second International Conference on Artificial Intelligence for Medicine, Health and Care (AIxMHC)*, Taichung, Taiwan. doi:10.1109/AIxMHC65380.2025.00013.
3. **Acosta JN**, Zhang X, Dogra S, Zhou H-Y, Payabvash S, Falcone GJ, Oermann EK, Rajpurkar P. HeadCT-ONE: Enabling Granular and Controllable Automated Evaluation of Head CT Radiology Report Generation. Proceedings of the 6th Conference on Health, Inference, and Learning, PMLR 287:649-671, 2025.
4. Zhang X, **Acosta JN**, Zhou HY, Rajpurkar P. Uncovering Knowledge Gaps in Radiology Report Generation Models through Knowledge Graphs. Proceedings of the 6th Conference on Health, Inference, and Learning, PMLR 287:30-42, 2025.
5. Zhang S, Sambara S, Banerjee O, **Acosta JN**, Fahrner LJ, Rajpurkar P. RadFlag: A Black-Box Hallucination Detection Method for Medical Vision Language Models. Proceedings of the 4th Machine Learning for Health Symposium, PMLR 259:1087-1103, 2025.
6. Zhang X, Zhou HY, Yang X, Banerjee O, **Acosta JN**, Miller J, Huang O, Rajpurkar P. ReXrank: A Public Leaderboard for AI-Powered Radiology Report Generation. Proceedings of the First AAAI Bridge Program on AI for Medicine and Healthcare, PMLR 281:90-99, 2025.
7. Huang Y, **Acosta JN**, Rajpurkar P. RadRevise: A Benchmark Dataset for Instruction-Based Radiology Report Editing. AAAI Bridge Program on AI for Medicine and Healthcare, 183-194, 2025.
8. Rao VM, Zhang S, **Acosta JN**, *et al.* ReXErr: Synthesizing Clinically Meaningful Errors in Diagnostic Radiology Reports. Biocomputing 2025: Proceedings of the Pacific Symposium, Biocomputing 2025: 70-81, 2024.

#### PREPRINTS

1. Zhang X, **Acosta JN**, Miller J, Huang O, Rajpurkar P. ReXGradient-160K: A Large-Scale Publicly Available Dataset of Chest Radiographs with Free-text Reports. Machine Learning for Health (ML4H) Symposium Findings Track, 2025.
2. Banerjee O, Kernbach JM, Kim SE, Alomaish AR, Alghamdi RAS, Alomaish H, Baharoon M, Zhang X, **Acosta JN**, Rajpurkar P. Beyond the Scanner: A Benchmark for Medical

Photograph Understanding. Proceedings of Medical Imaging with Deep Learning. (Under review)

3. Zhang X, **Acosta JN (co-first author)**, Dogra S, Silva EN, Basu S, Krumholz HM, Khera R, Rajpurkar P, Kim D. Opportunistic Cardiovascular Risk Assessment Using Routine Head CT in the Emergency Department. (Under review)
4. Rajpurkar P, **Acosta JN**, Dogra S, Jeong J, Jindal D, Moritz M, Rajpurkar S. a2z-1 for Multi-Disease Detection in Abdomen-Pelvis CT: External Validation and Performance Analysis Across 21 Conditions. arXiv preprint arXiv:2412.12629 (2024).
5. **Acosta JN**, Dogra S, Adithan S, Wu K, Moritz M, Kwak S, Rajpurkar P. The Impact of AI Assistance on Radiology Reporting: A Pilot Study Using Simulated AI Draft Reports. arXiv preprint arXiv:2412.12042 (2024).
6. Zhang X, Zhou HY, Yang X, Banerjee O, **Acosta JN**, Miller J, Huang O, Rajpurkar P. ReXrank: A Public Leaderboard for AI-Powered Radiology Report Generation. arXiv preprint arXiv:2411.15122 (2024).

**Full publication list:** [NCBI My Bibliography](#) | [Google Scholar](#)

## **SCIENTIFIC PRESENTATIONS & INVITED TALKS**

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### **INVITED TALKS**

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| <b>Oct 2025</b> | <b>Speaker</b> — “Evaluación de IA generativa en salud: de benchmarks a evidencia clínica”, Jornadas de Informatica en Salud, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina          |
| <b>Aug 2025</b> | <b>Speaker</b> — “Genomics and multimodal biomedical AI: Opportunities to accelerate drug development”, Takeda Pharmaceuticals, Cambridge, MA, USA  |
| <b>Apr 2025</b> | <b>Speaker</b> — “Simposio IA 2025: Inteligencia Artificial/Inteligencia humana”, Fleni, Buenos Aires, Argentina (Virtual)  |
| <b>Mar 2023</b> | <b>Speaker</b> — “Webinar: Inteligencia artificial multimodal. Capturando la complejidad de la salud y las enfermedades humanas”, Universidad Nacional del Litoral, Santa Fe, Argentina (Virtual) |
| <b>Dec 2022</b> | <b>Speaker</b> — “Multimodal biomedical AI - challenges and opportunities”, Stanford MedAI, Stanford University, Stanford, CA, USA (Virtual)  |
| <b>Apr 2022</b> | <b>Speaker</b> - “Cardiovascular Health Disparities in Racial and Other Underrepresented Groups: Initial Results From the All of Us Research Program” All of US Research Convention (Virtual)     |

### **SELECTED CONFERENCE PRESENTATIONS**

1. “Opportunistic cardiovascular risk assessment from emergency department head CT imaging.” RSNA Annual Meeting, Chicago, IL, USA. **Dec 2025**.
2. “OpenRadEval: An open-source LLM for line-by-line, clinically relevant radiologist-level evaluations in chest X-ray report generation.” RSNA Annual Meeting, Chicago, IL, USA. **Dec 2024**.
3. “Observed And Genomic Life’S Simple 7 Influence Brain Health-related Neuroimaging Traits In Persons Without Stroke Or Dementia.” International Stroke Conference, New

Orleans, LA, USA. **Feb 2022.**

4. "Race and Ethnicity Influence Perihematomal Edema Volume in Supratentorial Intracerebral Hemorrhage." (*Distinguished Poster*), Neurocritical Care Society Meeting, Virtual Conference. **Oct 2021.**
5. "Klotho-VS Heterozygosity Is Associated With Lower Risk Of Lobar Intracerebral Hemorrhage." (*Distinguished Poster*), Neurocritical Care Society Meeting, Virtual Conference. **Oct 2021.**
6. "Race and Ethnicity Influence Perihematomal Edema Volume in Supratentorial Intracerebral Hemorrhage." American Academy of Neurology Annual Meeting, Virtual Conference. **Apr 2021.**
7. "Stroke Disparities Across Racial and other Minorities: Results from the 'All of Us' Research Program." American Academy of Neurology Annual Meeting, Virtual Conference. **Apr 2021.**
8. "Klotho-VS Heterozygosity Is Associated With Lower Risk Of Non-traumatic Subarachnoid Hemorrhage." International Stroke Conference, Virtual Conference. **Feb 2021.**
9. "Race And Ethnicity Influence Perihematomal Edema Volume In Supratentorial Intracerebral Hemorrhage." International Stroke Conference, Virtual Conference. **Feb 2021.**
10. "Differences In Statistical Performance Of Polygenic Risk Scores For Cardiovascular Disease Across Different Race/Ethnicities." HEADS-UP Preconference Symposium, International Stroke Conference, Virtual Conference. **Feb 2021.**
11. "Stroke Disparities Across Racial and other Minorities: Results from the 'All of Us' Research Program." International Stroke Conference, Virtual Conference. **Feb 2021.**
12. "Polygenic Susceptibility To Hypertension Is Associated With Uncontrolled And Resistant Hypertension In Stroke Survivors." International Stroke Conference, Virtual Conference. **Feb 2021.**
13. "Causal Associations Between Genetically Determined Blood Pressure Levels and Risk of Subarachnoid Hemorrhage." (*Distinguished Poster*), Neurocritical Care Society Meeting, Virtual Conference. **Sep 2020.**
14. "Causal Associations Between Genetically-determined Smoking And Risk Of Subarachnoid Hemorrhage." International Stroke Conference, Los Angeles, CA, USA. **Feb 2020.**
15. "Hemoglobin Levels And Poor Outcome In Intracerebral Hemorrhage: An Exploratory Analysis Of Individual Patient Data Across Multiple Studies." International Stroke Conference, Los Angeles, CA, USA. **Feb 2020.**
16. "Change in functional status over time in intraventricular hemorrhage: an exploratory analysis of CLEAR III." European Stroke Organisation Conference, Milan, Italy. **May 2019.**
17. "Acute headache diagnosis in the emergency department: accuracy and safety of an artificial intelligence system." 71th American Academy of Neurology Annual Meeting, Philadelphia, PA, USA (Link). **May 2019.**
18. "Accuracy and safety of an artificial intelligent system for nonacute headache diagnosis." 70th American Academy of Neurology Annual Meeting, Los Angeles, CA, USA (Link). **Apr 2018.**

19. “Rapidly progressive dementia: towards a better diagnostic approach.” 70th American Academy of Neurology Annual Meeting, Los Angeles, CA, USA. **Apr 2018.**
20. “Primary angiitis of the central nervous system: retrospective analysis of a case series.” 54th Argentinian Society of Neurology (SNA) Annual Meeting, Mar del Plata, Argentina. **Nov 2017.**

## **MEDIA COVERAGE**

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<b>2022</b>	<b>Infobae:</b> “Tiene 32 años, es chaqueño y fue premiado en los Estados Unidos por liderar una investigación sobre ACV.”
<b>2021</b>	<b>The Washington Post:</b> “Big Number: Even occasional smokers are 27 percent more likely than nonsmokers to suffer a certain type of stroke.”
<b>2021</b>	<b>Healio:</b> “Minority groups experience disproportionate stroke burden.”
<b>2021</b>	<b>NeurologyLive:</b> “Causal Link Between Smoking and Subarachnoid Hemorrhage.”
<b>2021</b>	<b>Healio:</b> “Smoking may be linked to risk for subarachnoid hemorrhage.”

## **TECHNICAL EXPERTISE**

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<b>Programming</b>	Python (PyTorch, Hugging Face, OpenAI, pandas, scikit-learn), R, SQL
<b>Clinical Research</b>	Study design (observational studies, reader studies), IRB, statistical analysis, scientific writing
<b>Regulatory</b>	FDA 510(k) pre-submissions and submission documents, Breakthrough Device interactions; EU MDR technical documentation; Quality Management System (QMS), ISO 13485
<b>Cloud/Data</b>	AWS, Google Cloud, Azure; large-scale research data (All of Us, UK Biobank)
<b>Genomics</b>	PLINK, Genal, Mendelian Randomization packages, PRSice-2, IMPUTE2

## **LANGUAGES**

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