NIH Biographical Sketch Common Form

Name: Soares, Bruno P

Persistent Identifier (PID) of the Senior/Key Person: https://orcid.org/0000-0003-4185-6940

Position Title: Associate Professor of Radiology, Chief of Pediatric Neuroradiology

Organization and Location:Stanford University School of Medicine, Palo Alto, California, United States

PROFESSIONAL PREPARATION

INSTITUTION AND LOCATION	DEGREE	Start Date	Completion Date	FIELD OF STUDY
University of California San Francisco, San Francisco, California, United States	Fellow	07/2012	06/2013	Pediatric Neuroradiology
University of California San Francisco, San Francisco, California, United States	Fellow	07/2011	06/2012	Pediatric Radiology
University of California San Francisco, San Francisco, California, United States	Fellow	07/2010	06/2011	Diagnostic Neuroradiology
Dana-Farber Cancer Institute, Boston, Massachusetts, United States	Fellow	07/2009	06/2010	Nuclear Oncology / PET-CT
University of California San Francisco, San Francisco, California, United States	Postdoctoral Fellow	02/2008	06/2009	Neuroradiology Research
Federal University of Sao Paulo, Sao Paulo, Not Applicable, N/A, Brazil	Resident	02/2005	01/2008	Diagnostic Radiology
Federal University of Rio de Janeiro, Rio de Janeiro, Not Applicable, N/A, Brazil	Doctor of Medicine (MD)	03/1999	12/2004	Medicine

Appointments and Positions

2023 - present	Associate Professor of Radiology, Chief of Pediatric Neuroradiology, Stanford University School of Medicine, Palo Alto, California, United States
2018 - 2023	Associate Professor of Radiology, Chief of Neuroradiology, Vice-Chair of Imaging Research, University of Vermont College of Medicine, Burlington, Vermont, United States
2016 - 2018	Assistant Professor of Radiology, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States
2013 - 2016	Assistant Professor of Radiology, Emory University School of Medicine, Atlanta, Georgia, United States

Products

Products Closely Related to the Proposed Project

1. Mateus A. Esmeraldo, Stefanie Chambers, Yanniklas Kravutske, Eduardo Pontes Reis, Gregor Kasprian, Ana Filipa Geraldo, Sergios Gatidis, Bruno P. Soares. Pipeline Evaluation of a State-of-the-Art AI Algorithm for Detection of Focal Cortical Dysplasia: Insights into Potential Failure Sources. 2026 January. DOI: 10.64898/2026.01.13.26344036
2. Zachary Shah, Yonatan Urman, Bruno Soares. Stanford Longitudinally Accelerated MRI Dataset (SLAM). US; 2026 January. uri: https://purl.stanford.edu/rq296rb2765
3. Drane DL, Willie JT, Pedersen NP, Qiu D, Voets NL, Millis SR, Soares BP, Saindane AM, Hu R, Kim MS, Hewitt KC, Hakimian S, Grabowski T, Ojemann JG, Loring DW, Meador KJ, Faught E Jr, Miller JW, Gross RE. Superior Verbal Memory Outcome After Stereotactic Laser Amygdalohippocampotomy. Front Neurol. 2021;12:779495. PubMed Central PMCID: PMC8695842.
4. Yanniklas Kravutske, Mateus A Esmeraldo, Eduardo P Reis, Stefanie Chambers, Lukas Haider, Gregor Kasprian, Bruno P

Soares. Comprehensive segmentation of focal cortical dysplasia by combining surface-based and whole-brain MRI deep learning algorithms: a proof-of-concept study. Biomedical Physics & Engineering Express. 2026 February. DOI: 10.1088/2057-1976/ae3d3e

5. Stefanie Chambers, Mateus A Esmeraldo, Lukas Haider, Gregor Kasprian, Bruno P. Soares. Microcephaly with Simplified Gyral Pattern in Children: Quantitative Morphometric Assessment on Brain MRI and Correlation with Clinical Outcome. 2026. Available from: https://www.researchgate.net/doi/10.13140/RG.2.2.36557.50401 DOI: 10.13140/RG.2.2.36557.50401

Other Significant Products Highlighting Contributions to Science

1. Zhao MY, Alexander S, Lopez CA, Zhang H, Morton G, Armindo RD, Yeom KW, Tong E, Soares BP, Lee S, Moseley M, Steinberg GK. Characterizing pre- and post-operative cerebral blood flow and transit time in pediatric moyamoya patients using multi-delay ASL and DSC MRI. J Cereb Blood Flow Metab. 2025 Dec;45(12):2381-2392. PubMed Central PMCID: PMC12267206.
2. Onda K, Catenaccio E, Chotiyanonta J, Chavez-Valdez R, Meoded A, Soares BP, Tekes A, Spahic H, Miller SC, Parker SJ, Parkinson C, Vaidya DM, Graham EM, Stafstrom CE, Everett AD, Northington FJ, Oishi K. Development of a composite diffusion tensor imaging score correlating with short-term neurological status in neonatal hypoxic-ischemic encephalopathy. Front Neurosci. 2022;16:931360. PubMed Central PMCID: PMC9379310.
3. Trofimova A, Milla SS, Ryan ME, Pruthi S, Blount JP, Desai NK, Glenn OA, Islam MP, Kadom N, Mirsky DM, Myseros JS, Partap S, Radhakrishnan R, Rose E, Soares BP, Trout AT, Udayasankar UK, Whitehead MT, Karmazyn B. ACR Appropriateness Criteria® Seizures-Child. J Am Coll Radiol. 2021 May;18(5S):S199-S211. PubMed PMID: 33958113.
4. Liu X, Tekes A, Perin J, Chen MW, Soares BP, Massaro AN, Govindan RB, Parkinson C, Chavez-Valdez R, Northington FJ, Brady KM, Lee JK. Wavelet Autoregulation Monitoring Identifies Blood Pressures Associated With Brain Injury in Neonatal Hypoxic-Ischemic Encephalopathy. Front Neurol. 2021;12:662839. PubMed Central PMCID: PMC8113412.
5. Dorner RA, Allen MC, Robinson S, Soares BP, Perin J, Ramos E, Gerner G, Burton VJ. Early neurodevelopmental outcome in preterm posthemorrhagic ventricular dilatation and hydrocephalus: Neonatal ICU Network Neurobehavioral Scale and imaging predict 3-6-month motor quotients and Capute Scales. J Neurosurg Pediatr. 2020 Mar 1;25(3):217-227. PubMed Central PMCID: PMC7305038.

Certification:

I certify that the information provided is current, accurate, and complete. This includes but is not limited to information related to domestic and foreign appointments and positions.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

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NIH BIOGRAPHICAL SKETCH SUPPLEMENT

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Persistent Identifier (PID) of the Senior/Key Person: https://orcid.org/0000-0003-4185-6940

Position Title: Associate Professor of Radiology, Chief of Pediatric Neuroradiology

Organization and Location: Stanford University School of Medicine, Palo Alto, California, United States

Personal Statement

I am a board-certified academic pediatric neuroradiologist, subspecialty-certified in both Diagnostic Neuroradiology and Pediatric Radiology with fellowship training at the University of California, San Francisco. My academic interests span fetal and neonatal brain imaging, normal CNS development, and neurodevelopmental disorders, with a particular focus on epilepsy, brain tumors, prematurity, and genetic and metabolic diseases. My research career has been dedicated to advancing pediatric neuroimaging through quantitative imaging approaches and, more recently, through the clinical translation of novel artificial intelligence (AI) techniques. At this pivotal stage of my career, I am leading efforts to develop pediatric-specific, generalizable AI frameworks to improve diagnostic accuracy, scalability, and clinical integration in pediatric neuroimaging.

Honors

2026	Fellow of the American Society of Pediatric Neuroradiology, American Society of Pediatric Neuroradiology
2022	Excellence in Research Award, Department of Radiology, University of Vermont
2021	Volunteer Service Award, American Board of Radiology
2019	Excellence in Mentorship Award, Department of Radiology, University of Vermont
2017	International Outreach Professor Program , American Society of Neuroradiology
2017	Distinguished Reviewer, American Journal of Neuroradiology
2016	Distinguished Reviewer, American Journal of Neuroradiology
2015	Subspecialty Certification in Neuroradiology, American Board of Radiology
2013	Board Certification in Diagnostic Radiology, American Board of Radiology
2013	Outstanding Clinical Fellow / Instructor Teaching Award, Department of Radiology, University of California San Francisco
2012	Fellow Research Award, Society for Pediatric Radiology
2004	Cum Laude, Federal University of Rio de Janeiro School of Medicine
2002 - 2004	Annual Research Scholarship, Research Support Foundation, Rio de Janeiro State Government

Contributions to Science

1. My early publications focused on the development of reliable, standardized methods of assessing cerebral blood flow in patients suffering from acute ischemic stroke or subarachnoid hemorrhage, utilizing perfusion computed tomography (perfusion CT).
2. Over the past 15 years, my work has focused almost exclusively on advancing pediatric and neonatal neuroimaging through conventional and advanced MRI techniques, generating clinically impactful insights across epilepsy, neurodevelopmental disorders, fetal and neonatal brain disease, and rare genetic and metabolic conditions.
3. My current research program has increasingly focused on advancing pediatric neuroimaging through novel artificial intelligence techniques, with an initial emphasis on epilepsy in children, where subtle imaging abnormalities are frequently missed in routine practice. My recent contributions include systematic evaluations of state-of-the-art AI models for automated lesion detection, combination of complementary deep learning pipelines to improve segmentation performance, and quantitative morphometric analyses linking imaging features to clinical outcomes in pediatric populations. Building on these published efforts, my team is now developing pediatric-specific, generalizable AI frameworks designed to improve diagnostic accuracy, scalability, and workflow integration.

Certification:

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