



## Ryan Charles Leung Brewster

- Postdoctoral Medical Fellow, Neonatal and Develop Medicine
- Fellow in Pediatrics - Neonatology

### Bio

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#### BIO

Ryan Brewster is a Neonatal-Perinatal Medicine Fellow at the Stanford University School of Medicine. His scholarship focuses on building, scaling, and evaluating technology-enabled models of care delivery, with an emphasis on child health equity. Ongoing initiatives include implementing pediatric home hospital, studying the use of artificial intelligence for medical translation and interpretation, and expanding tele-neonatology services globally. Prior to his clinical fellowship, he was a Harvard HealthTech Fellow and Ariadne Labs Research Fellow. His work has led to over 80 peer-reviewed publications and conference presentations that have been featured in Forbes, CNN, STAT News, and the New York Times.

Dr. Brewster completed his residency training in the Boston Combined Residency Program (Boston Children's Hospital/Harvard Medical School and Boston Medical Center/Boston University School of Medicine) as part of the Leadership in Equity and Advocacy Track and is a graduate of the Stanford University School of Medicine (MD) and Middlebury College (BA).

#### PROFESSIONAL EDUCATION

- Bachelor of Arts, Middlebury College , Molecular Bio & Biochemistry (2014)
- Doctor of Medicine, Stanford University , MED-MD (2021)
- Certificate, Stanford Graduate School of Business Ignite (2019)

### Publications

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#### PUBLICATIONS

- **The future of follow-up: technology-enabled medical and developmental follow-up care for NICU graduates.** *Journal of perinatology : official journal of the California Perinatal Association*  
Brewster, R. C., Fuerch, J. H., Litt, J. S.  
2026
- **Clinical Outcomes of Postedited Artificial Intelligence Translation for Discharge Instructions.** *Hospital pediatrics*  
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2026
- **Evaluating human-in-the-loop strategies for artificial intelligence-enabled translation of patient discharge instructions: a multidisciplinary analysis.** *NPJ digital medicine*  
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Brewster, R. C., Zahedivash, A., Tse, G., Bourgeois, F., Hadland, S. E.

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- **Take the Lead on Lead: Feasibility of a Telemedicine-Based Clinic for Lead Poisoning Prevention and Management** *ACADEMIC PEDIATRICS*  
Brewster, R. C. L., Acosta, K., Story, D., Bayuh, F., Shah, S., Woolf, A., Buncher, N., Hauptman, M.  
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- **Enhancing in-hospital cardiac arrest outcomes through the Tele-ICU Model: A novel approach to CPR quality improvement in India** *HEALTH POLICY AND TECHNOLOGY*  
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- **Family Perceptions of Pediatric Acute Hospital Care at Home in the United States: A Qualitative Analysis** *HOSPITAL PEDIATRICS*  
Brewster, R. C. L., Thomas Day, R., Butler, A., Lin, E., Levine, D. M., Berry, J. G.  
2025; 15 (7): 607-615
- **Childcare Affordability and Benefits Among Resident Physicians** *JAMA NETWORK OPEN*  
Brewster, R. C. L., Butler, A., Tanson, K., Kunhiabduallah, S., Kesselheim, J., Michelson, C. D.  
2025; 8 (5): e2511089
- **Artist's Statement: Boarding** *ACADEMIC MEDICINE*  
Brewster, R. C. L.  
2025; 100 (4): 425
- **Bacterial and Parasitic Stool Studies Have Limited Utility in Pediatric Hematopoietic Stem Cell Transplant Patients** *PEDIATRIC BLOOD & CANCER*  
Nagy, M., Wychera, C., Schemm, J., Brewster, R., Duncan, C. N.  
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- **Enhancing healthcare equity by using open-source pediatric medical devices in low resource settings: An exploratory international survey of pediatric clinicians.** *PLoS ONE*  
Wu, A. G., Brewster, R. C., Carroll, R. W.  
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- **US FDA Approval of Pediatric Artificial Intelligence and Machine Learning-Enabled Medical Devices** *JAMA PEDIATRICS*  
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- **Implementing Acute Hospital Care at Home in Pediatrics** *PEDIATRICS*  
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- **Performance of ChatGPT and Google Translate for Pediatric Discharge Instruction Translation.** *PEDIATRICS*  
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- **Impact of the COVID-19 Pandemic on Childhood Lead Testing and Blood Lead Levels** *ACADEMIC PEDIATRICS*  
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- **A Proof-of-Concept Model for Implementing a "Smart-NICU" to Improve Infant Mortality** *JOURNAL OF INTENSIVE CARE MEDICINE*  
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- **Open source approaches for pediatric global health technologies.** *Journal of medical engineering & technology*  
Brewster, R. C., Wu, A., Carroll, R. W.  
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- **The 2022 to 2023 Amoxicillin Shortage and Acute Otitis Media Treatment** *PEDIATRICS*  
Brewster, R. C. L., Khazanchi, R., Butler, A., OMeara, D., Bagchi, D., Michelson, K. A.  
2023; 152 (3)
- **Evaluation of Housing Affordability Among US Resident Physicians** *JAMA NETWORK OPEN*  
Brewster, R. C. L., Butler, A., Michelson, C. D., Kesselheim, J.  
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- **A Prescription for Internet: Feasibility of a Tablet Loaner Program to Address Digital Health Inequities** *APPLIED CLINICAL INFORMATICS*  
Brewster, R. C. L., Zhang, J., Stewart, M., Kaur, R., Arellano, M., Bourgeois, F.  
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- **The utilization of clinical decision support tools to identify neonatal hypothermia and its associated risk factors: A prospective observational study** *PLOS GLOBAL PUBLIC HEALTH*  
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- **Persistent Lactic Acidosis in an Infant With Milk Protein Allergy** *CLINICAL PEDIATRICS*  
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- **"My Body, Whose Choice?" A Call to Advance Reproductive Justice in Pediatric Training** *PEDIATRICS*  
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- **COVID-19-Associated Croup in Children.** *Pediatrics*  
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- **Managing Persistent Hypertension and Tachycardia Following Septic Shock, Limb Ischemia, and Amputation: The Role for beta-Blockade.** *Clinical pediatrics*

- Brewster, R., Lee, J., Nguyen, E., Ward, V.  
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  - **The Effect of Socioeconomic Status on Age at Diagnosis and Overall Survival in Patients with Intracranial Meningioma.** *The International journal of neuroscience*  
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  - **Using Telemedicine and Infographics for Physician-Guided Home Drain Removal.** *OTO open*  
Go, B. C., Brewster, R., Patel, R., Rajasekaran, K.  
2020; 4 (2): 2473974X20933566
  - **Justice is the Best Medicine. And, Yes, You Can Call Us by Our Pronouns.** *AMA journal of ethics*  
Brewster, R.  
2020; 22 (3): E253–254
  - **Optimizing your telemedicine visit during the COVID-19 pandemic: Practice guidelines for patients with head and neck cancer.** *Head & neck*  
Prasad, A. n., Brewster, R. n., Newman, J. G., Rajasekaran, K. n.  
2020
  - **Preparing for Telemedicine Visits: Guidelines and Setup.** *Frontiers in medicine*  
Prasad, A. n., Brewster, R. n., Rajasekaran, D. n., Rajasekaran, K. n.  
2020; 7: 600794
  - **Optimizing telemedicine encounters for oral and maxillofacial surgeons during the COVID-19 pandemic.** *Oral surgery, oral medicine, oral pathology and oral radiology*  
Moon, H. S., Wang, T. T., Rajasekaran, K. n., Brewster, R. n., Shanti, R. M., Panchal, N. n.  
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  - **How to perform a nasopharyngeal swab - an otolaryngology perspective.** *The American journal of medicine*  
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  - **Microbiota modification in hematology: still at the bench or ready for the bedside?**  
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  - **Cutaneous Patches to Monitor Myoelectric Activity of the Gastrointestinal Tract in Postoperative Pediatric Patients** *PEDIATRIC GASTROENTEROLOGY HEPATOLOGY & NUTRITION*  
Taylor, J. S., de Ruijter, V., Brewster, R., Navalgund, A., Axelrod, L., Axelrod, S., Dunn, J. C. Y., Wall, J. K.  
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  - **Socioeconomic Predictors of Surgical Resection and Survival for Patients With Osseous Spinal Neoplasms** *CLINICAL SPINE SURGERY*  
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  - **Frameless Robot-Assisted Deep Brain Stimulation Surgery: An Initial Experience.** *Operative neurosurgery (Hagerstown, Md.)*  
Ho, A. L., Pendharkar, A. V., Brewster, R., Martinez, D. L., Jaffe, R. A., Xu, L. W., Miller, K. J., Halpern, C. H.  
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- **Surveying Gut Microbiome Research in Africans: Toward Improved Diversity and Representation.** *Trends in microbiology*  
Brewster, R. n., Tamburini, F. B., Asimwe, E. n., Oduaran, O. n., Hazelhurst, S. n., Bhatt, A. S.  
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- **The Search for Meaning** *ACADEMIC MEDICINE*  
Brewster, R., Vyas, D.  
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- **Endoscope-assisted repair of CSF otorrhea and temporal lobe encephaloceles via keyhole craniotomy.** *Journal of neurosurgery*  
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- **Superior semicircular canal dehiscence syndrome.** *Journal of neurosurgery*  
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- **Germline and somatic BAP1 mutations in high-grade rhabdoid meningiomas.** *Neuro-oncology*  
Shankar, G. M., Abedalthagafi, M., Vaubel, R. A., Merrill, P. H., Nayyar, N., Gill, C. M., Brewster, R., Bi, W. L., Agarwalla, P. K., Thorner, A. R., Reardon, D. A., Al-Mefty, O., Wen, et al  
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- **Genomic landscape of intracranial meningiomas.** *Journal of neurosurgery*  
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- **Evita's lobotomy.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Young, G. J., Bi, W. L., Smith, T. R., Brewster, R., Gormley, W. B., Dunn, I. F., Laws, E. R., Nijensohn, D. E.  
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- **The Assassination of Abraham Lincoln and the Evolution of Neuro-Trauma Care: Would the 16th President Have Survived in the Modern Era?** *World neurosurgery*  
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