

# Stanford

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## Marcos Rojas Pino

Ph.D. Student in Education, admitted Autumn 2022

### Bio

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#### BIO

I am a physician from Chile, passionate about medical education and educational technologies. My research focuses on the use of artificial intelligence, virtual reality, and augmented reality in medical education. I am actively developing tools that leverage artificial intelligence to enhance and evaluate clinical reasoning among healthcare professionals.

#### HONORS AND AWARDS

- Technology Innovator of the Year, Society for Simulation in Healthcare (2026)
- Gold Winner, Best Use of Generative AI, QS Reimagine Education Awards (2025)
- Distinguished Alumni Award, Emerging Professional and Future Leader, Faculty of Medicine, University of Chile (2025)
- Student Project Showcase Winner, Accelerate Edtech Impact Summit 2024 (2024)
- Community Impact Award, Stanford Alumni Association (2024)
- Stanford Graduate Fellowships in Science and Engineering, Stanford University (2023)
- Enhancing Diversity in Graduate Education Fellowship, Stanford University (2022)
- Patil Teaching Innovation Award, Association for Medical Education in Europe (2016)

#### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member Technology Enhanced Learning Committee, AMEE (2024 - present)
- Member, ASME (2024 - present)
- Member, AMEE (2023 - present)
- Founder - Member, LatinSOTL (2019 - present)

#### EDUCATION AND CERTIFICATIONS

- M.D., University of Chile , Medicine (2019)

#### PERSONAL INTERESTS

Medical education, Higher Education, Educational Technologies, Artificial Intelligence

#### LINKS

- Clinical Mind AI: <https://clinicalmindai.stanford.edu/>

## Research & Scholarship

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### RESEARCH INTERESTS

- Higher Education
- Technology and Education

### LAB AFFILIATIONS

- Thomas Caruso, Chariot Lab (12/1/2022)

## Publications

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### PUBLICATIONS

- **Remote Augmented Reality Versus Traditional Simulation for Team Leader Assessment in a Cardiac Arrest Scenario: Noninferiority Randomized Controlled Trial.** *JMIR medical education*  
Gianotto-Oliveira, R., Rojas, M., Queiroz, M., Zanchetta, F., Ferrari, A., Kojima, L., Paula, A., Campos, B., Cecilio-Fernandes, D., Caruso, T. J.  
2026; 12: e84367
- **Non-technical skill performance during remote, international, augmented-reality neonatal resuscitation protocol simulations: a feasibility study.** *BMC medical education*  
Rojas, M., Yun, R., Rama, A., Plane, J., Arancibia, C., Paredes, P., Penna, A., Zhao, Y., Caruso, T. J.  
2026
- **The Physiologic Effect of Augmented Reality Simulation Versus Traditional Simulation: A Noninferiority, Randomized Controlled Trial.** *The journal of education in perioperative medicine : JEPM*  
Rama, A., Rojas-Pino, M. S., Wang, E. Y., Rodriguez, S. T., Suen, M. Y., Titzler, J. S., Zuniga-Hernandez, M., Jackson, C., Rosales, O., Collins, F., Caruso, T. J.  
2025; 27 (1): E740
- **Exploring Differences in Clinical Decisions Between Medical Students and Expert Clinicians.** *Advances in medical education and practice*  
Rojas, M., Price, A., Kim, C. J., Chen, S. F., Gutierrez, K., Wieman, C., Salehi, S.  
2024; 15: 1285-1297
- **Reclaiming focus in medical education: Learning, not AI.** *Medical teacher*  
Rojas, M.  
2024: 1
- **Exploring the Performance of ChatGPT Versions 3.5, 4, and 4 With Vision in the Chilean Medical Licensing Examination: Observational Study.** *JMIR medical education*  
Rojas, M., Rojas, M., Burgess, V., Toro-Pérez, J., Salehi, S.  
2024; 10: e55048
- **Characterization of content associated with lesbian, gay, bisexual, transgender, intersex, and queer individuals in Chilean medical schools: a cross-sectional survey.** *BMC medical education*  
Rojas, M., Cánepa González, J., Ortiz-López, N.  
2024; 24 (1): 167
- **Introducing the Problem-Solving Template as a Tool for Equity: Addressing Incoming Preparation Disparities** *J. Chem. Educ.*  
Schwartz Poehlmann, J. K., Nardo, J. E., Rojas, M., Salehi, S.  
2024; 101 (3): 1332–1340
- **Impact of extracurricular activities on the self-actualization of medical students: a systematic review** *SPANISH JOURNAL OF MEDICAL EDUCATION*  
Gordillo-Espinace, E., Dolz-Torres, P., Palma-Bifani, P., Rojas-Pino, M.  
2024; 5 (1)
- **Impact of 3D printing on medical students' learning: a systematic review** *SPANISH JOURNAL OF MEDICAL EDUCATION*  
Zelada-Mirror, M., Segura-Beltran, F., Margas-Cavieres, F., Rojas-Pino, M.

2024; 5 (4)

- **Well-being variations on students of health sciences related to their learning opportunities, resources, and daily activities in an online and on-crisis context: a survey-based study.** *BMC medical education*  
Perez-Villalobos, C., Ventura-Ventura, J., Spormann-Romeri, C., Paredes-Villarroel, X., Rojas-Pino, M., Jara-Reyes, C., Lopez, M., Castillo-Rabanal, I., Schilling-Norman, M. J., Baquedano-Rodriguez, M., Parra-Ponce, P., Toirkens-Niklitschek, J., Briede-Westermeyer, et al  
2023; 23 (1): 37
- **Remote observation of surgeries in the study of anatomy in medical students: A systematic review.** *SPANISH JOURNAL OF MEDICAL EDUCATION*  
Garrido, V., Saez, M., Salinas, C., Marcos-Rojas  
2023; 4 (1): 1-11
- **Satisfaction with remote teaching during the first semester of the COVID-19 crisis: Psychometric properties of a scale for health students** *PLOS ONE*  
Perez-Villalobos, C., Ventura-Ventura, J., Spormann-Romeri, C., Melipillan, R., Jara-Reyes, C., Paredes-Villarroel, X., Rojas-Pino, M., Baquedano-Rodriguez, M., Castillo-Rabanal, I., Parra-Ponce, P., Bastias-Vega, N., Alvarado-Figueroa, D., Matus-Betancourt, et al  
2021; 16 (4): e0250739
- **Music Training and Education Slow the Deterioration of Music Perception Produced by Presbycusis in the Elderly** *FRONTIERS IN AGING NEUROSCIENCE*  
Moreno-Gomez, F. N., Veliz, G., Rojas, M., Martinez, C., Olmedo, R., Panussis, F., Dagnino-Subiabre, A., Delgado, C., Delano, P. H.  
2017; 9: 149