Stanford

Asheen Rama

Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**
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Bio

BIO

Dr. Asheen Rama is a member of the Division of Pediatric Anesthesiology. He regularly organizes and conducts medical simulations across various hospital units, utilizing both traditional in-situ methods and advanced immersive technologies, such as virtual and augmented reality. He also collaborates with the Stanford CHARIOT program, leading efforts to integrate immersive technologies into medical education and working to scale these innovations nationally and internationally.

Dr. Rama teaches a diverse range of learners, including medical students, residents, fellows, and nurses. His academic interests focus on simulation, medical education, and artificial intelligence. Additionally, he has a strong interest in the medical humanities and has taught several Stanford undergraduate and medical student courses that explore the intersection of art and medicine.

CLINICAL FOCUS

- Pediatric Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Residency: University of California San Diego School of Medicine (2017) CA
- Board Certification: Pediatric Anesthesia, American Board of Anesthesiology (2018)
- Board Certification: Anesthesia, American Board of Anesthesiology (2018)
- Fellowship: Boston Children's Hospital (2018) MA
- Internship: University of California, Irvine (2014) CA
- Medical Education: University of California, Irvine (2013) CA

Teaching

COURSES

2026-27

- The Art of Medical Diagnosis: ANES 72Q (Spr)
- The Art of Observation: Enhancing Clinical Skills Through Visual Analysis: SOMGEN 213 (Win)

2025-26

- The Art of Medical Diagnosis: ANES 72Q (Spr)
- The Art of Observation: Enhancing Clinical Skills Through Visual Analysis: SOMGEN 213 (Win)

2024-25

- The Art of Medical Diagnosis: ANES 72Q (Spr)
- The Art of Observation: Enhancing Clinical Skills Through Visual Analysis: SOMGEN 213 (Win)

2023-24

- The Art of Medical Diagnosis: ANES 72Q (Spr)
- The Art of Observation: Enhancing Clinical Skills Through Visual Analysis: SOMGEN 213 (Win)

Publications

PUBLICATIONS

- **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

- **Augmented Reality Medical Simulation: A Multi-Site Study of Factors That Influence Acceptance.** *Paediatric anaesthesia*
  Wang, E. Y., Castro, S., Zhang, L., Suen, M. Y., Parris, M., Marks, A., Weser, V., Longhini, A. B., Strupp, K. M., Hernandez, M. R., Libaw, J. S., Kupiec-Weglinski, S., Lockhart, et al
  2025

- **The Year in Graduate Medical Education: Selected Highlights from 2024.** *Journal of cardiothoracic and vascular anesthesia*
  Patel, S. J., Notarianni, A. P., Waldron, N. H., Tsai, A., Roberts, M. L., Sacks, S. M., Colao, J. A., Kinney, D. A., Montealegre-Gallegos, M., Liang, H., Rama, A., Ristovic, V., Pulton, et al
  2025

- **Pediatric trauma and resuscitation: optimizing care in an evolving landscape.** *Current opinion in anaesthesiology*
  McMullen, C. L., Levin, D., Rama, A.
  2025

- **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

- **Pro-Con Debate: Virtual Reality Compared to Augmented Reality for Medical Simulation.** *Anesthesia and analgesia*
  Caruso, T. J., Rama, A., Uribe-Marquez, S., Mitchell, J. D.
  2024

- **A Quality Improvement Project to Improve the Utilization of an Intraoperative Rapid Response System.** *Pediatric quality & safety*
  Rama, A., Qian, D., Forbes, T., Wang, E., Knight, L., Berg, M., Caruso, T. J.
  2023; 8 (6): e686

- **Enhancing Telemedicine Perioperative Simulations Using Augmented Reality.** *The journal of education in perioperative medicine : JEPM*
  Rama, A., Tsai, A. H., Caruso, T. J.
  2023; 25 (3): E711
- **Virtual Immersion into a Poorly-Managed Medical Crisis Worsens Subsequent Performance: A Randomized, Controlled Trial** *CLINICAL SIMULATION IN NURSING*
  Rama, A., Neiman, N., Burdsall, K., Fonseca, A., Lee, C., Domingue, B., Jackson, C., Caruso, T. J.
  2022; 70: 47-55
- **Assessing Pediatric Life Support Skills Using Augmented Reality Medical Simulation With Eye Tracking: A Pilot Study.** *The journal of education in perioperative medicine : JEPM*
  Qian, J., Rama, A., Wang, E., Wang, T., Hess, O., Khoury, M., Jackson, C., Caruso, T. J.
  2022; 24 (3): E691
- **A Pilot Quality Improvement Project to Reduce Intraoperative MRI Hypothermia in Neurosurgical Patients.** *Pediatric quality & safety*
  Wong, B. J., Rama, A., Caruso, T. J., Lee, C. K., Wang, E., Chen, M.
  2022; 7 (2): e531
- **The Physiologic and Emotional Effects of 360-Degree Video Simulation on Head-Mounted Display Versus In-Person Simulation: A Noninferiority, Randomized Controlled Trial.** *Simulation in healthcare : journal of the Society for Simulation in Healthcare*
  Caruso, T. J., Armstrong-Carter, E., Rama, A., Neiman, N., Taylor, K., Madill, M., Lawrence, K., Hemphill, S. F., Guo, N., Domingue, B. W.
  2021
- **Individualized simulations in a time of social distancing: Learning on donning and doffing of an COVID-19 airway response team.** *Journal of clinical anesthesia*
  Rama, A. n., Murray, A. n., Fehr, J. n., Tsui, B. n.
  2020; 67: 110019
- **Near Miss in Intraoperative Magnetic Resonance Imaging: A Case for In Situ Simulation.** *Pediatric quality & safety*
  Rama, A., Knight, L. J., Berg, M., Chen, M., Gonzales, R., Delhagen, T., Copperman, L., Caruso, T. J.
  2019; 4 (6): e222
- **Operating Room Codes Redefined: A Highly Reliable Model Integrating the Core Hospital Code Team.** *Pediatric quality & safety*
  Caruso, T. J., Rama, A. n., Knight, L. J., Gonzales, R. n., Munshey, F. n., Darling, C. n., Chen, M. n., Sharek, P. J.
  2019; 4 (3): e172