Stanford



Teresa Phuongtram Nguyen

Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Teresa Nguyen, MD, is a Clinical Assistant Professor of Anesthesiology at Stanford Medicine and faculty at the Stanford Institute for Human-Centered AI (HAI). She serves as a co-Principal Investigator on a cross-disciplinary initiative between Stanford HAI and the Department of Computer Science, directing the development of autonomous quadruped robotics for robotics education and deployment in clinical applications. Her research further develops frameworks for the integration of machine learning models into healthcare delivery systems and their impact on clinical decision-making.

Previously a Scientific Researcher at Genentech, Dr. Nguyen co-invented and patented a series of therapeutics for chronic and neuropathic pain. She holds a BS in Chemistry and an MD from Stanford University, where she conducted research in the laboratory of Nobel Laureate Carolyn Bertozzi.

A first-generation immigrant, U.S. Department of State Critical Language Scholar (Arabic/Morocco), and licensed helicopter pilot, Dr. Nguyen is the co-founder of Hands-On Robotics, a nonprofit accelerating technical education through accessible hardware and curriculum. She continues to serve as the instructor for Chemistry Unleashed (Chem 93) at the Stanford Department of Chemistry, bridging molecular theory with clinical practice for the next generation of scientists.

CLINICAL FOCUS

- Anesthesiology, Perioperative, and Pain Medicine
- Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

ADMINISTRATIVE APPOINTMENTS

- Affiliated Faculty, Stanford Institute for Human Centered Artificial Intelligence, (2024- present)

HONORS AND AWARDS

- Henry J Kaiser Family Foundation Award for Excellence in Clinical Teaching, Stanford University School of Medicine (2026)
- Critical Language Scholarship - Arabic, United States Department of State
- Bing Fellowship, Stanford University Department of Chemistry, Prof. Barry Trost
- Medical Scholars, Stanford School of Medicine, Prof. Carolyn Bertozzi (2017)

PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, American Board of Anesthesiology (2025)
- Medical Education: Stanford University School of Medicine (2020) CA
- Residency: Stanford University Anesthesiology Residency (2024) CA
- Internship: Kaiser Permanente at Santa Clara (2021) CA
- Medical Doctorate, Stanford University School of Medicine (2020)
- Bachelor of Science, Stanford University , Chemistry (2014)

COMMUNITY AND INTERNATIONAL WORK

- Co-Founder
- Founder

PATENTS

- Bergeron, P, Chowdhury, S, Dehnhardt, CM., Focken, T, Grimwood, ME, Hasan, A, Lai, KW, Liu, Z, McKerrall, S, Nguyen, TP, Safina, B, Sutherlin, D, Tan, WT. "United States Patent WO 2017058821 A1 Therapeutic Compounds and Methods Use Thereof", Apr 16, 2017

LINKS

- Stanford Magazine: Meet Teresa Nguyen: https://stanfordmag.org/contents/meet-teresa-nguyen
- "Robo-Dogs Unleash Joy at Stanford Hospital": https://news.stanford.edu/report/2023/08/01/robo-dogs-unleash-fun-joy-stanford-hospital/
- "Robotic Puppies Bring Joy and Therapy to Patients at Stanford Medicine Children's Health": https://healthier.stanfordchildrens.org/en/robotic-puppies-bring-joy-and-therapy-to-patients-at-stanford-medicine-childrens-health/

Teaching

COURSES

2026-27

- When We Go Under, Where Do We Go? Molecules, Medicine, and the Mind: ANES 77N (Spr)

2025-26

- Chemistry Unleashed: Exploring the Chemistry that Transforms Our World: CHEM 93 (Win)

2024-25

- Chemistry Unleashed: Exploring the Chemistry that Transforms Our World: CHEM 93 (Spr)

2023-24

- Chemistry Unleashed: Exploring the Chemistry that Transforms Our World: CHEM 93 (Spr)

Publications

PUBLICATIONS

- **Verifying Facts in Patient Care Documents Generated by Large Language Models Using Electronic Health Records.** *NEJM AI*

Chung, P., Swaminathan, A., Goodell, A. J., Kim, Y., Momsen Reincke, S., Han, L., Deverett, B., Sadeghi, M. A., Ariss, A. B., Ghanem, M., Seong, D., Lee, A. A., Coombes, et al
2026; 3 (1): AIdbp2500418

- **An automated framework for assessing how well LLMs cite relevant medical references.** *Nature communications*
  Wu, K., Wu, E., Wei, K., Zhang, A., Casasola, A., Nguyen, T., Riantawan, S., Shi, P., Ho, D., Zou, J.
  2025; 16 (1): 3615
- **Verifying Facts in Patient Care Documents Generated by Large Language Models Using Electronic Health Records** *NEJM AI*
  Chung, P., et al
  2025; 3 (1)
- **The evaluation of the performance of ChatGPT in the management of labor analgesia.** *Journal of clinical anesthesia*
  Ismaiel, N., Nguyen, T. P., Guo, N., Carvalho, B., Sultan, P.
  2024; 98: 111582
- **Comparison of artificial intelligence large language model chatbots in answering frequently asked questions in anaesthesia.** *BJA open*
  Nguyen, T. P., Carvalho, B., Sukhdeo, H., Joudi, K., Guo, N., Chen, M., Wolpaw, J. T., Kiefer, J. J., Byrne, M., Jamroz, T., Mootz, A. A., Reale, S. C., Zou, et al
  2024; 10: 100280
- **A comparative study of English and Japanese ChatGPT responses to anaesthesia-related medical questions.** *BJA open*
  Ando, K., Sato, M., Wakatsuki, S., Nagai, R., Chino, K., Kai, H., Sasaki, T., Kato, R., Nguyen, T. P., Guo, N., Sultan, P.
  2024; 10: 100296
- **In Response.** *Anesthesia and analgesia*
  Mootz, A. A., Carvalho, B., Sultan, P., Nguyen, T. P., Reale, S. C.
  2024; 138 (6): e37-e38
- **The Accuracy of ChatGPT-Generated Responses in Answering Commonly Asked Patient Questions About Labor Epidurals: A Survey-Based Study.** *Anesthesia and analgesia*
  Mootz, A. A., Carvalho, B., Sultan, P., Nguyen, T. P., Reale, S. C.
  2024
- **Innovating pediatric care with social robots to alleviate anxiety.** *Paediatric anaesthesia*
  Nguyen, T., Yamaguchi, C., Tilton, L., Caruso, T.
  2023
- **Consumption of cruciferous vegetables and the risk of bladder cancer in a prospective US cohort: data from the NIH-AARP diet and health study** *AMERICAN JOURNAL OF CLINICAL AND EXPERIMENTAL UROLOGY*
  Nguyen, T. P., Zhang, C. A., Sonn, G. A., Eisenberg, M. L., Brooks, J. D.
  2021; 9 (3): 229-238
- **Hemodynamic changes in patients undergoing office-based sinus procedures under local anesthesia.** *International forum of allergy & rhinology*
  Chang, M. T., Jitaroon, K. n., Nguyen, T. n., Yan, C. H., Overdevest, J. B., Nayak, J. V., Hwang, P. H., Patel, Z. M.
  2020; 10 (1): 114–20
- **Structure- and Ligand-Based Discovery of Chromane Arylsulfonamide Nav1.7 Inhibitors for the Treatment of Chronic Pain.** *Journal of medicinal chemistry*
  McKerrall, S. J., Nguyen, T., Lai, K. W., Bergeron, P., Deng, L., DiPasquale, A., Chang, J. H., Chen, J., Chernov-Rogan, T., Hackos, D. H., Maher, J., Ortwine, D. F., Pang, et al
  2019; 62 (8): 4091-4109
- **Biomechanical Study of a Multifilament Stainless Steel Cable Crimp System Versus a Multistrand Ultra-High Molecular Weight Polyethylene Polyester Suture Krackow Technique for Achilles Tendon Rupture Repair.** *The Journal of foot and ankle surgery : official publication of the American College of Foot and Ankle Surgeons*
  Nguyen, T. P., Keyt, L. K., Herfat, S. n., Gordon, L. n., Palanca, A. n.
  2019; 59 (1): 86–90
- **Budesonide irrigation with olfactory training improves outcomes compared with olfactory training alone in patients with olfactory loss**

Nguyen, T. P., Patel, Z. M.
WILEY.2018: 977–81