



Teresa Phuongtram Nguyen

Resident in Anesthesiology, Perioperative and Pain Medicine

Bio

BIO

Dr. Teresa Nguyen is a Resident Physician in Anesthesiology at Stanford Medicine. She is passionate about medical innovation and is committed to advancing science education and mentorship. Her research is focused on the intersection of AI and medicine where she studies the applications of large language models in healthcare and subsequent impacts on society. She also mentors students in the Stanford Robotics Team and leads research initiatives for investigating AI-enabled robots' application for improved pediatric care and outcomes. She is the instructor for Chem 93: "Chemistry Unleashed: Exploring the Chemistry that Transforms Our World" at the Stanford Department of Chemistry and is a helicopter pilot.

Dr. Nguyen completed her Bachelor of Science degree in Chemistry at Stanford University, where she was awarded a U.S. Department of State Critical Language Scholarship in Arabic and the Bing Fellowship for her research in Chemistry. She then became a Scientific Researcher at Genentech, where she co-invented and patented a series of drugs for the potential treatment of chronic and neuropathic pain. She attended and received her MD from Stanford University School of Medicine, where she was a Medical Scholars Research Fellow under the mentorship of Professor Carolyn Bertozzi (Nobel laureate in Chemistry 2022). She has published across several medical subspecialties, including head and neck surgery, rhinology, urology, and orthopedic surgery.

Dr. Nguyen is deeply passionate about diversity, equity, and inclusion initiatives. She is the founder of the Lighthouse Initiative, a nonprofit organization whose mission is to provide resources and mentorship to first-generation, low-income, and minority individuals, with a 100% success rate in aiding college admissions for its members. She is also the co-founder of Hands-On Robotics, a nonprofit organization which supports robotics initiatives and education.

CLINICAL FOCUS

- Residency
- Anesthesiology, Perioperative, and Pain Medicine

HONORS AND AWARDS

- 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

- 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

INTERNET 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

2023-24

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

Publications

PUBLICATIONS

- **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
- **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
- **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.

