



Alexandra Ruan

Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia**

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Bio

BIO

Dr. Alexandra Ruan is currently a Clinical Assistant Professor in the Department of Anesthesiology, Pain and Perioperative Medicine at Stanford University. She obtained her undergraduate degrees in Public Health and History of Science at The Johns Hopkins University, and subsequently returned to California for medical school at the University of Southern California Keck School of Medicine, where she graduated with a Distinction in Research in 2016. She completed her anesthesiology residency at Stanford University, where she was elected and served as Chief Resident during her CA-3 year.

Since graduating from residency, she stayed at Stanford Anesthesia, joining the Multi-Specialty Division (MSD), and completed an advanced clinical proctorship to join the liver transplant anesthesia group, a small select group of anesthesiologists within the MSD who also care for the patients undergoing liver transplantation.

Beyond clinical care, Dr. Ruan has authored several publications during her training, including most recently a review of anesthesia for robotic thoracic surgery, and continues to be involved in several scholarly projects. She has an interest in physician well-being, and is currently studying sleep disruption during resident night float. She also serves on the Stanford MD Admissions Panel as both a file reviewer and traditional interviewer.

You can follow her on Twitter: [@RuanAlexandra](https://twitter.com/RuanAlexandra)

CLINICAL FOCUS

- Anesthesia
- Liver Transplant Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, American Board of Anesthesiology (2021)
- Medical Education: University of Southern California Keck School of Medicine (2016) CA
- Residency: Stanford University Anesthesiology Residency (2020) CA
- Internship: Stanford University Internal Medicine Residency (2017) CA
- BS, Johns Hopkins University , Public Health (2012)

Publications

PUBLICATIONS

- **Machine Learning Composite Variable for Pre-Operative Volume Status in Orthotopic Liver Transplant Predicts Postoperative Length of Stay**
Coombes, C., Ruan, A., Mudumbai, S., Chen, M., Kloosterboerl, A.
LIPPINCOTT WILLIAMS & WILKINS.2025: 460-462
- **In Response. *Anesthesia and analgesia***
Ruan, A., Flood, P. D.
2023; 136 (6): e42-e43
- **The Effect of Night Float Rotation on Resident Sleep, Activity, and Well-Being. *Anesthesia and analgesia***
Ruan, A., Klein, A., Jhita, P., Hasan-Hill, N., Shafer, S. L., Flood, P. D.
2022
- **The Effect of Night Float Rotation on Resident Sleep, Activity, and Wellbeing: An Observational Study**
Ruan, A., Klein, A., Hasan, N., Flood, P.
LIPPINCOTT WILLIAMS & WILKINS.2022: 433-436
- **Anesthesia considerations for robotic thoracic surgery *VIDEO-ASSISTED THORACIC SURGERY***
Ruan, A., Kulkarni, V.
2020; 5
- **Multipoint Kras oncogene mutations potentially indicate mucinous carcinoma on the entire spectrum of mucinous ovarian neoplasms *ONCOTARGET***
Lee, Y., Lee, M., Ruan, A., Chen, C., Liu, H., Wang, C., Chao, W., Han, C.
2016; 7 (50): 82097-82103
- **Brief Report: Macrophage Activation in HIV-Infected Adolescent Males Contributes to Differential Bone Loss by Sex: Adolescent Trials Network Study 021. *Journal of acquired immune deficiency syndromes (1999)***
Ruan, A., Tobin, N. H., Mulligan, K., Rollie, A., Li, F., Sleasman, J., Aldrovandi, G. M.
2016; 72 (4): 372-5
- **A promising hypothesis of c-KIT methylation/ expression paradox in c-KIT (+) squamous cell carcinoma of uterine cervix ----- CTCF transcriptional repressor regulates c-KIT proto-oncogene expression. *Diagnostic pathology***
Chang, S. W., Chao, W. R., Ruan, A., Wang, P. H., Lin, J. C., Han, C. P.
2015; 10: 207
- **Assessment of HER2 Status Using Immunohistochemistry (IHC) and Fluorescence In Situ Hybridization (FISH) Techniques in Mucinous Epithelial Ovarian Cancer: A Comprehensive Comparison between ToGA Biopsy Method and ToGA Surgical Specimen Method. *PloS one***
Chao, W. R., Lee, M. Y., Ruan, A., Sheng, H. P., Hsu, J. D., Han, C. P., Koo, C. L.
2015; 10 (11): e0142135