

Stanford



Tianjia Jessie Ge

Clinical Instructor, Urology

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Stanford Comprehensive Cancer Center**

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Bio

CLINICAL FOCUS

- Urology

ACADEMIC APPOINTMENTS

- Clinical Instructor, Urology

HONORS AND AWARDS

- Howard Hughes Medical Institute Medical Research Fellow, HHMI (2015-2016)

PROFESSIONAL EDUCATION

- Fellowship, Stanford University Dept of Urology , Urologic Oncology (SUO) (2026)
- Internship: Stanford University General Surgery Residency (2019) CA
- Medical Education: Washington University in St Louis School of Medicine (2018) MO
- Residency: Stanford University Dept of Urology CA
- MD, Washington University in St. Louis School of Medicine (2018)
- BS, California Institute of Technology , Bioengineering (2012)

Publications

PUBLICATIONS

- **A magnetic hydrogel for the efficient retrieval of kidney stone fragments during ureteroscopy.** *Nature communications*
Ge, T. J., Roquero, D. M., Holton, G. H., Mach, K. E., Prado, K., Lau, H., Jensen, K., Chang, T. C., Conti, S., Sheth, K., Wang, S. X., Liao, J. C.
2023; 14 (1): 3711
- **Passive monitoring by smart toilets for precision health.** *Science translational medicine*
Ge, T. J., Rahimzadeh, V. N., Mintz, K., Park, W. G., Martinez-Martin, N., Liao, J. C., Park, S. M.
2023; 15 (681): eabk3489

- **Resident and Fellow Unions: Collective Activism to Promote Well-being for Physicians in Training.** *JAMA*
Lin, G. L., Ge, T. J., Pal, R.
2022
- **Continuous health monitoring: An opportunity for precision health.** *Science translational medicine*
Gambhir, S. S., Ge, T. J., Vermesh, O., Spittler, R., Gold, G. E.
2021; 13 (597)
- **A mountable toilet system for personalized health monitoring via the analysis of excreta.** *Nature biomedical engineering*
Park, S. M., Won, D. D., Lee, B. J., Escobedo, D. n., Esteva, A. n., Aalipour, A. n., Ge, T. J., Kim, J. H., Suh, S. n., Choi, E. H., Lozano, A. X., Yao, C. n., Bodapati, et al
2020
- **Toward achieving precision health** *SCIENCE TRANSLATIONAL MEDICINE*
Gambhir, S., Ge, T., Vermesh, O., Spittler, R.
2018; 10 (430)
- **An intravascular magnetic wire for the high-throughput retrieval of circulating tumour cells in vivo.** *Nature biomedical engineering*
Vermesh, O., Aalipour, A., Ge, T. J., Saenz, Y., Guo, Y., Alam, I. S., Park, S., Adelson, C. N., Mitsutake, Y., Vilches-Moure, J., Godoy, E., Bachmann, M., Ooi, et al
2018; 2: 696–705
- **Magnetic retrieval of kidney stones via ureteroscopy in a porcine model** *DEVICE*
Roquero, D., Ge, T., Holton, G. H., Kornberg, Z., Bryan, J. T., Doeve, J., Lau, H., Sheth, K., Conti, S., Mach, K. E., Wang, S. X., Liao, J. C.
2026; 4 (1)
- **Differences in postoperative communication patterns among patients with limited English proficiency following radical cystectomy for bladder cancer.** *Urologic oncology*
Chen, A. L., Zhang, C. A., Ogunkeye, J., Ge, T. J., Nguyen, N., Shkolyar, E., Thong, A. E., Leppert, J. T., Gill, H. S., Shah, J. B., Skinner, E., Prado, K. B.
2025
- **Magnetic stone fragment removal via ureteroscopy in porcine models**
Roquero, D., Ge, T. J., Holton, G., Bryan, J. T., Kornberg, Z. T., Mach, K. E., Wang, S. X., Liao, J. C.
ELSEVIER.2025
- **Preclinical efficacy and safety evaluation of an antimicrobial irrigation solution**
Roquero, D., Holton, G., Ge, T. J., Kornberg, Z. T., Rodriguez, G., La, V., Lau, H., Mach, K. E., Liao, J. C.
ELSEVIER.2025
- **Disrupting Biofilms on Human Kidney Stones-A Path Toward Reducing Infectious Complications During Stone Surgery.** *Advanced healthcare materials*
Massana Roquero, D., Holton, G. H., Ge, T. J., Kornberg, Z., Mach, K. E., Rodriguez, G., La, V., Lau, H., Sun, R., Chang, T. C., Conti, S., Liao, J. C.
2025: e2403470
- **DEVELOPING AN ANTIMICROBIAL IRRIGATION SOLUTION FOR ENDOUROLOGICAL PROCEDURES: EX VIVO EFFICACY AND IN VIVO SAFETY**
Roquero, D., Holton, G. H., Ge, T., Kornberg, Z., Rodriguez, G., La, V., Lau, H., Mach, K., Liao, J.
LIPPINCOTT WILLIAMS & WILKINS.2024: E1119-E1120
- **Efficient Augmented Intelligence Framework for Bladder Lesion Detection.** *JCO clinical cancer informatics*
Eminaga, O., Lee, T. J., Laurie, M., Ge, T. J., La, V., Long, J., Semjonow, A., Bogemann, M., Lau, H., Shkolyar, E., Xing, L., Liao, J. C.
2023; 7: e2300031
- **Conceptual Framework and Documentation Standards of Cystoscopic Media Content for Artificial Intelligence.** *Journal of biomedical informatics*
Eminaga, O., Jiyong Lee, T., Ge, J., Shkolyar, E., Laurie, M., Long, J., Graham Hockman, L., Liao, J. C.
2023: 104369
- **EFFICACY AND SAFETY OF A MAGNETIC HYDROGEL FOR STONE FRAGMENT REMOVAL: AN IN VITRO AND IN VIVO STUDY**
Roquero, D., Ge, T., Holton, G. H., Mach, K. E., Kornberg, Z., Sun, R., Conti, S., Wang, S. X., Liao, J. C.

LIPPINCOTT WILLIAMS & WILKINS.2023: E819

- **ANTIMICROBIAL AND ANTIBIOFILM PROPERTIES OF CHITOSAN: AN EX VIVO STUDY ON KIDNEY STONES**
Holton, G. H., Roquero, D., Ge, T., Mach, K. E., Lee, T. J., Chang, T. C., Liao, J. C.
LIPPINCOTT WILLIAMS & WILKINS.2023: E45
- **Conceptual Framework and Documentation Standards of Cystoscopic Media Content for Artificial Intelligence.** *ArXiv*
Eminaga, O., Lee, T. J., Ge, J., Shkolyar, E., Laurie, M., Long, J., Hockman, L. G., Liao, J. C.
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- **An Efficient Framework for Video Documentation of Bladder Lesions for Cystoscopy: A Proof-of-Concept Study.** *Journal of medical systems*
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2022; 46 (11): 73
- **Smart toilets for monitoring COVID-19 surges: passive diagnostics and public health.** *NPJ digital medicine*
Ge, T. J., Chan, C. T., Lee, B. J., Liao, J. C., Park, S.
2022; 5 (1): 39
- **Digital biomarkers in human excreta.** *Nature reviews. Gastroenterology & hepatology*
Park, S. M., Ge, T. J., Won, D. D., Lee, J. K., Liao, J. C.
2021
- **Microvesicle-mediated delivery of minicircle DNA results in effective gene-directed enzyme prodrug cancer therapy.** *Molecular cancer therapeutics*
Kanada, M., Kim, B. D., Hardy, J. W., Bachmann, M. H., Bernard, M. P., Perez, G. I., Zarea, A. A., Ge, T. J., Withrow, A., Ibrahim, S. A., Toomajian, V., Gambhir, S. S., Paulmurugan, et al
2019
- **Comparison of precision and speed in laparoscopic and robot-assisted surgical task performance** *JOURNAL OF SURGICAL RESEARCH*
Zihni, A., Gerull, W. D., Cavallo, J. A., Ge, T., Ray, S., Chiu, J., Brunt, L., Awad, M. M.
2018; 223: 29–33
- **Sleep Disturbance and Fatigue Are Associated With More Severe Urinary Incontinence and Overactive Bladder Symptoms** *UROLOGY*
Ge, T., Vetter, J., Lai, H.
2017; 109: 67–73
- **The Exosome Total Isolation Chip.** *ACS nano*
Liu, F. n., Vermesh, O. n., Mani, V. n., Ge, T. J., Madsen, S. J., Sabour, A. n., Hsu, E. C., Gowrishankar, G. n., Kanada, M. n., Jokerst, J. V., Sierra, R. G., Chang, E. n., Lau, et al
2017
- **Transfer and priming of surgical skills across minimally invasive surgical platforms** *JOURNAL OF SURGICAL RESEARCH*
Zihni, A., Ge, T., Ray, S., Wang, R., Liang, Z., Cavallo, J. A., Awad, M. M.
2016; 206 (1): 48–52