



J. Prescott Chan, MD

Clinical Assistant Professor, Orthopaedic Surgery

CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. J. Prescott Chan is a fellowship-trained spine surgeon with Stanford Health Care. He is also a clinical assistant professor in the Department of Orthopaedic Surgery at Stanford University School of Medicine.

Dr. Chan specializes in the surgical treatment of conditions affecting the cervical, thoracic, and lumbar spine, including degenerative disc disease, herniated discs, spinal stenosis, spinal deformity, spine tumors, and spine trauma. He is skilled in minimally invasive and endoscopic surgical techniques, including robotic-assisted spine surgery. He works closely with each patient to build a personalized treatment plan that reflects their goals and utilizes the most advanced techniques to help them achieve a better quality of life.

His translational research interests are focused on mechanisms of nerve injury and regeneration. He conducts clinical research on risk factors for complications after spine surgery and has published on the effects of infection, nutritional status, and nicotine use on surgical outcomes. He is also passionate about teaching the next generation of medical students and residents and has evaluated outcomes and learning curves for surgeons training to perform endoscopic spine surgery.

He has published extensively in peer-reviewed journals, including Spine, The Spine Journal, World Neurosurgery, Journal of Neurosurgery, and Clinical Spine Surgery. Dr. Chan has presented his research at numerous national and international meetings, including those of the International Society for the Advancement of Spine Surgery (ISASS) and the Cervical Spine Research Society (CSRS) where he has received multiple research awards.

Dr. Chan is a member of the American Academy of Orthopaedic Surgeons (AAOS) and the North American Spine Society (NASS)

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Orthopaedic Surgery

HONORS AND AWARDS

- Annual Meeting Scholarship, Cervical Spine Research Society (2025)

- Best Paper Award, Cervical Spine Research Society- Asia Pacific (2025)
- Academic Chief Resident, UC Irvine Orthopaedic Surgery Residency Program (2024)
- Outstanding Fellow/Resident Research Award, UCI School of Medicine (2024)
- Resident Paper Award, California Orthopaedic Association (2024)
- Doximity Top 10% Most Published Clinician, Doximity (2023)
- Harold and Nancy Willingham Endowed Research Award, Western Orthopaedic Foundation (2023)
- Resident and Fellow Research Award, Cervical Spine Research Society (2023)
- Young Surgeon Grant, International Society for the Advancement of Spine Surgery (2023)
- Doximity Top 10% Most Cited Clinician, Doximity (2022)
- Alpha Omega Alpha Honor Medical Society, AOA (2020)
- Graduation with Distinction in Research, UC Irvine School of Medicine (2020)
- Charles S. Neer Award in Basic Science, American Shoulder and Elbow Surgeons (2019)
- Carolyn L. Kuckein Research Fellowship, Alpha Omega Alpha (2018)
- Dean's Research Scholarship, UC Irvine School of Medicine (2017)
- Dean's List, Columbia University (2012-2016)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Program Evaluation Committee, UC Irvine Department of Orthopaedic Surgery (2023 - 2025)
- Resident Assembly: Innovation Committee, American Academy of Orthopaedic Surgery (AAOS) (2023 - 2025)
- Resident Assembly: Research Committee, American Academy of Orthopaedic Surgery (AAOS) (2021 - 2022)

PROFESSIONAL EDUCATION

- Fellowship, Harvard University Combined Massachusetts General and Brigham & Women's Hospitals , Spine Surgery (2026)
- Residency, University of California, Irvine School of Medicine , Orthopaedic Surgery, Chief Resident (2025)
- MD, University of California, Irvine , Alpha Omega Alpha, Graduation with Distinction in Research (2020)
- BA, Columbia University , Economics (2016)

LINKS

- LinkedIn: <https://www.linkedin.com/in/justin-chan-md-b7427061/>
- Doximity: <https://www.doximity.com/profiles/8d13f985-a67c-49a6-a4a2-f898ef336cb4/view>

Publications

PUBLICATIONS

- **The Performance of Prognostic Measures for Survival in Spinal Metastatic Disease in Light of Modern Advancements in Medical and Surgical Management.** *Spine*
Striano, B. M., Ferrone, M. L., Holly, K. E., Zheng, C., Nguyen, A., Macksood, J., Osgood, A., Coan, J. M., Chan, J. P., Cronin, P. K., Tobert, D. G., Schoenfeld, A. J.
2026
- **Revisiting Survival in the Treatment of Spinal Metastases from Lung Cancer in the Modern Era of Immunotherapy and Molecular Targeted Treatment (2017-2022).** *Spine*
Striano, B. M., Ferrone, M. L., Holly, K. E., Zheng, C., Nguyen, A., Macksood, J., Osgood, A., Coan, J. M., Chan, J. P., Cronin, P. K., Tobert, D. G., Schoenfeld, A. J.
2026

- **Navigating Ankle Fracture Surgery in the Shadow of COVID-19.** *Foot & ankle specialist*
Chan, J. P., Hoang, H., Anderson, A., Hsu, A. R.
2026; 19 (2): 187-195
- **What is the learning curve for endoscopic spine surgery? A comprehensive systematic review.** *The spine journal : official journal of the North American Spine Society*
Chan, J. P., Olson, T., Gabriel, B., Hashmi, S., Wu, H. H., Bow, H., Lee, Y. P., Bhatia, N., Oh, M., Park, D. Y.
2026; 26 (3): 438-449
- **Non-tobacco nicotine dependence increases risk of complications following lumbar spine decompression and fusion.** *North American Spine Society journal*
Spitzer, C., Romoff, M., Brunette, M., Peterson, M. K., Ton, A., Le, R., Sharma, A., Chan, J. P., Wu, H. H., Hashmi, S., Kim, M. S.
2025; 24: 100790
- **Predicting Likelihood to Repeat Elective Hand Surgery with Early Quick Disabilities of the Arm, Shoulder and Hand Scores: A Feasibility Study.** *Journal of hand surgery global online*
London, D. A., Schroeder, A. M., Chan, J. P., Franko, O. I.
2025; 7 (6): 100813
- **Timing of total joint arthroplasty post-COVID-19: an evaluation of the optimal window to minimize perioperative risks.** *Arthroplasty (London, England)*
Hoang, H., Gabriel, B., Lung, B., Yang, S., Chan, J. P.
2024; 6 (1): 53
- **Elevated Serum Alkaline Phosphatase is an Independent Predictor of Complications After Lumbar Spinal Fusion.** *World neurosurgery*
Chan, J. P., Lung, B., Donnelly, M., Hashmi, S. Z., Bhatia, N., Lee, Y. P.
2024; 188: e434-e440
- **Cervical Spine Surgery Following COVID-19 Infection: When is it Safe to Proceed?** *Clinical spine surgery*
Chan, J. P., Hoang, H., Wu, H. H., Park, D. Y., Lee, Y. P., Bhatia, N., Hashmi, S. Z.
2024; 37 (4): 155-163
- **Patient Likelihood to Repeat Surgery After Highly "Successful" Hand Procedures.** *Hand (New York, N.Y.)*
Chan, J. P., London, D. A., Franko, O.
2024; 19 (1): 180-184
- **A temporal analysis of perioperative complications following COVID-19 infection in patients undergoing lumbar spinal fusion: When is it safe to proceed?** *North American Spine Society journal*
Chan, J. P., Hoang, H., Hashmi, S. Z., Lee, Y. P., Bhatia, N. N.
2023; 16: 100262
- **Statistical Fragility of Randomized Controlled Trials Evaluating Platelet-Rich Plasma Use for Knee Osteoarthritis: A Systematic Review.** *Orthopaedic journal of sports medicine*
Chan, J. P., Vrla, M., Thompson, C., Trofa, D. P., Li, X., Wang, D., Parisien, R. L.
2023; 11 (8): 23259671231187894
- **Hand Replantation With Dorsal Spanning Plate Following a Self-Inflicted Radiocarpal Amputation.** *Cureus*
Lai, W. C., Pham, C., Chan, J. P., Lung, B. E., Rafijah, G. H.
2023; 15 (3): e36656
- **Return to Work and Sport After Distal Femoral Osteotomy: A Systematic Review.** *Sports health*
Bassi, J. S., Chan, J. P., Johnston, T., Wang, D.
2022; 14 (5): 681-686
- **Preoperative hypoalbuminemia and dialysis increase morbidity/mortality after spine surgery for primary pyogenic spinal infections (ACS-NSQIP Study).** *Surgical neurology international*
Camino-Willhuber, G., Franklin, A., Rosecrance, K., Oyadomari, S., Chan, J., Holc, F., Hashmi, S., Oh, M., Bhatia, N., Emmerich, J., Lee, Y. P.
2022; 13: 193
- **Human motor endplate remodeling after traumatic nerve injury.** *Journal of neurosurgery*
Gupta, R., Chan, J. P., Uong, J., Palispis, W. A., Wright, D. J., Shah, S. B., Ward, S. R., Lee, T. Q., Steward, O.

2021; 135 (1): 220-227

- **Blood Coagulation Factor Fibrinogen in Tumor Pathogenesis of Central Nervous System B-Cell Lymphoma.** *The American journal of pathology*
Chan, J. P., Merlini, M., Gao, H. X., Mendiola, A. S., Akassoglou, K., Rubenstein, J. L., Ryu, J. K.
2021; 191 (3): 575-583
- **Ergonomics in Dermatologic Surgery: Lessons Learned Across Related Specialties and Opportunities for Improvement.** *Dermatologic surgery : official publication for American Society for Dermatologic Surgery [et al.]*
Chan, J., Kim, D. J., Kassira-Carley, S., Rotunda, A. M., Lee, P. K.
2020; 46 (6): 763-772
- **Examination of the human motor endplate after brachial plexus injury with two-photon microscopy.** *Muscle & nerve*
Chan, J. P., Clune, J., Shah, S. B., Ward, S. R., Kocsis, J. D., Mozaffar, T., Steward, O., Gupta, R.
2020; 61 (3): 390-395
- **Lessons From Leprosy: Peripheral Neuropathies and Deformities in Chronic Demyelinating Diseases.** *The Journal of hand surgery*
Chan, J. P., Uong, J., Nassiri, N., Gupta, R.
2019; 44 (5): 411-415
- **Fibrin-targeting immunotherapy protects against neuroinflammation and neurodegeneration.** *Nature immunology*
Ryu, J. K., Rafalski, V. A., Meyer-Franke, A., Adams, R. A., Poda, S. B., Rios Coronado, P. E., Pedersen, L. Ø., Menon, V., Baeten, K. M., Sikorski, S. L., Bedard, C., Hanspers, K., Bardehle, et al
2018; 19 (11): 1212-1223
- **p75 Neurotrophin Receptor Regulates Energy Balance in Obesity.** *Cell reports*
Baeza-Raja, B., Sachs, B. D., Li, P., Christian, F., Vagena, E., Davalos, D., Le Moan, N., Ryu, J. K., Sikorski, S. L., Chan, J. P., Scadeng, M., Taylor, S. S., Houslay, et al
2016; 14 (2): 255-68
- **Blood coagulation protein fibrinogen promotes autoimmunity and demyelination via chemokine release and antigen presentation** *NATURE COMMUNICATIONS*
Ryu, J., Petersen, M. A., Murray, S. G., Baeten, K. M., Meyer-Franke, A., Chan, J. P., Vagena, E., Bedard, C., Machado, M. R., Coronado, P., Prod'homme, T., Charo, I. F., Lassmann, et al
2015; 6: 8164
- **Nuclear pore complex remodeling by p75(NTR) cleavage controls TGF- β signaling and astrocyte functions.** *Nature neuroscience*
Schachtrup, C., Ryu, J. K., Mammadzada, K., Khan, A. S., Carlton, P. M., Perez, A., Christian, F., Le Moan, N., Vagena, E., Baeza-Raja, B., Rafalski, V., Chan, J. P., Nitschke, et al
2015; 18 (8): 1077-1080