

Stanford

Cynthia Chuang

Clinical Associate Professor, Radiation Oncology - Radiation Physics

Bio

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiation Oncology - Radiation Physics

Publications

PUBLICATIONS

- **Stereotactic radiosurgery for trigeminal neuralgia secondary to tumor: a single-institution retrospective series.** *Neurosurgical focus*
Hall, J. C., Ung, T. H., McCleary, T. L., Chuang, C., Gibbs, I. C., Soltys, S. G., Hayden Gephart, M., Li, G., Pollom, E. L., Chang, S. D., Meola, A.
2022; 53 (5): E3
- **Mitigating the uncertainty in small field dosimetry by leveraging machine learning strategies.** *Physics in medicine and biology*
Zhao, W., Yang, Y., Xing, L., Chuang, C. F., Schüler, E.
2022
- **Implicit neural representation for radiation therapy dose distribution.** *Physics in medicine and biology*
Vasudevan, V., Shen, L., Huang, C., Chuang, C. F., Islam, M. T., Ren, H., Yang, Y., Dong, P., Xing, L.
2022
- **Small field measurement and monte carlo model validation of a novel image-guided radiotherapy system.** *Medical physics*
Shi, M., Chuang, C. F., Kovalchuk, N., Bush, K. K., Zaks, D., Xing, L., Surucu, M., Han, B.
2021
- **Deep learning-enabled EPID-based 3D dosimetry for dose verification of step-and-shoot radiotherapy.** *Medical physics*
Jia, M., Wu, Y., Yang, Y., Wang, L., Chuang, C., Han, B., Xing, L.
2021
- **Medical Physics Practice Guideline (MPPG) 11.a: Plan and chart review in external beam radiotherapy and brachytherapy.** *Journal of applied clinical medical physics*
Xia, P., Sintay, B. J., Colussi, V. C., Chuang, C., Lo, Y., Schofield, D., Wells, M., Zhou, S.
2021
- **The Stanford stereotactic radiosurgery experience on 7000 patients over 2 decades (1999-2018): looking far beyond the scalpel.** *Journal of neurosurgery*
Fatima, N., Meola, A., Ding, V. Y., Pollom, E., Soltys, S. G., Chuang, C. F., Shahsavari, N., Hancock, S. L., Gibbs, I. C., Adler, J. R., Chang, S. D.
2021: 1–17
- **A robotically assisted 3D printed quality assurance lung phantom for Calypso.** *Physics in medicine and biology*
Capaldi, D. P., Skinner, L. B., Dubrowski, P. n., Zhang, H. n., Xing, L. n., Chuang, C. F., Loo, B. W., Bush, K. K., Fahimian, B. P., Yu, A. S.
2021
- **ZAP-X: A Novel Radiosurgical Device for the Treatment of Trigeminal Neuralgia** *CUREUS*
Romanelli, P., Chuang, C., Meola, A., Bodduluri, R. M., Adler, J. R.
2020; 12 (5)
- **Clinical impact of the VOLO optimizer on treatment plan quality and clinical treatment efficiency for CyberKnife.** *Journal of applied clinical medical physics*
Schuler, E., Lo, A., Chuang, C. F., Soltys, S. G., Pollom, E. L., Wang, L.

2020

- **Successful Use of Frameless Stereotactic Radiosurgery for Treatment of Recurrent Brain Metastases in an 18 Month Old Child.** *The International journal of neuroscience*
Rahimy, E., Chuang, C., Spunt, S. L., Mahaney, K., Donaldson, S. S., Gibbs, I. C., Soltys, S. G., Pollom, E., Hiniker, S. M.
2019; 1–6
- **Erratum: "Report of AAPM TG 135: Quality assurance for robotic radiosurgery".** *Medical physics*
Dieterich, S., Cavedon, C., Chuang, C. F., Cohen, A. B., Garrett, J. A., Lee, C. L., Lowenstein, J. R., D'Souza, M. F., Taylor, D. D., Wu, X., Yu, C.
2011; 38 (9): 5264
- **Report of AAPM TG 135: Quality assurance for robotic radiosurgery (vol 38, pg 2914, 2011)** *MEDICAL PHYSICS*
Dieterich, S., Cavedon, C., Chuang, C. F., Cohen, A. B., Garrett, J. A., Lee, C. L., Lowenstein, J. R., d'Souza, M. F., Taylor, D. D., Wu, X., Yu, C.
2011; 38 (9): 5264-5264
- **Report of AAPM TG 135: Quality assurance for robotic radiosurgery** *MEDICAL PHYSICS*
Dieterich, S., Cavedon, C., Chuang, C. F., Cohen, A. B., Garrett, J. A., Lee, C. L., Lowenstein, J. R., d'Souza, M. F., Taylor, D. D., Wu, X., Yu, C.
2011; 38 (6): 2914-2936