

Stanford



Hilary Bagshaw, MD

Clinical Associate Professor, Radiation Oncology - Radiation Therapy

CLINICAL OFFICE (PRIMARY)

- **Dept of Radiation Oncology**

875 Blake Wilbur Dr Rm 305

Ground FI MC 6560

Stanford, CA 94305

Tel (650) 723-6171 **Fax** (650) 725-8231

ACADEMIC CONTACT INFORMATION

- **Office**

Tel 650-736-6976

Bio

CLINICAL FOCUS

- Radiation Oncology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiation Oncology - Radiation Therapy
- Member, Stanford Cancer Institute

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Radiation Oncology (2016) CA
- Internship: Stanford University Dept of General Surgery (2012) CA
- Board Certification: Radiation Oncology, American Board of Radiology (2017)
- Fellowship, Stanford University Radiation Oncology , Brachytherapy & SBRT (2017)
- Residency, Stanford University & The University of Utah , Radiation Oncology (2016)
- Residency: University of Utah Radiation Oncology Residency (2015) UT
- Internship, Stanford University , General Surgery (2012)
- Medical Education: Temple University School of Medicine (2011) PA
- MD, Temple University School of Medicine (2011)

LINKS

- Stanford Cancer Center New Patient Packet: <https://stanfordmedicine.box.com/s/9jt6aacvwuvpgq2fvk69rxix0gw3qae>
- Guide to Shared Decision Making: <https://stanfordmedicine.box.com/s/jzl4yxpb0ejhsgpg62xw>
- HDR Infographic: <https://stanfordmedicine.box.com/s/orsqr51r7u69st4luukweo1gw6688u28>
- Radiation Therapy for Prostate Cancer Infographic: <https://stanfordmedicine.box.com/s/74lpcle0teu19rdybg5d8wuh53uc561h>
- ABS HDR Task Force: <https://stanfordmedicine.box.com/s/b6nea4jn2s7prfu4r7nwdnoun4lre2rz>

- VIDEO- Prostate Cancer: <https://stanfordmedicine.box.com/s/m69fbpg9ylc1a5zeiv8e>
- VIDEO- HDR Prostate Brachytherapy: <https://stanfordmedicine.box.com/s/guyyu1a6nuiqkabqv5etxiy2fp0rt3a2>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- Phase 2 of comparing lutetium vipivotide tetraxeten versus Observation to delay castration, Recruiting
- Phase III Evaluating De-Intensification in LR&IntensificationOfConcurrent Tx vs HR+RT in HRProstatCan, Not Recruiting
- Phase III IGRT & SBRT vs IGRT & Hypofractionated IMRT in Localized Intermediate Risk Prostate Cancer, Not Recruiting

Publications

PUBLICATIONS

- **Magnetic Resonance Imaging Guided Stereotactic Body Radiation Therapy for Definitive Treatment of Prostate Cancer After Prior Chemoradiation and Laparoscopic Low Anterior Resection.** *Advances in radiation oncology*
Kalahasti, N., Pham, D., Gao, Y., Ngo, N., Bagshaw, H. P.
2026; 11 (7): 102056
- **Magnetic Resonance Imaging Guided Stereotactic Body Radiation Therapy for Definitive Treatment of Prostate Cancer After Prior Chemoradiation and Laparoscopic Low Anterior Resection** *ADVANCES IN RADIATION ONCOLOGY*
Kalahasti, N., Pham, D., Gao, Y., Ngo, N., Bagshaw, H. P.
2026; 11 (7)
- **Second-Line Radiation Therapy for Locally Recurrent Prostate Cancer After Focal Therapy: A Single Institution Matched-Pair Analysis.** *Clinical genitourinary cancer*
Ewongwo, A., Kalahasti, N. V., Hui, C., Taparra, K., Sonn, G., Ghanouni, P., Bagshaw, H. P., Buyyounouski, M. K.
2026; 24 (4): 102562
- **Lattice Radiation Therapy as a Novel Approach for Renal Cell Carcinoma: A Case Series.** *Cureus*
Vallamkonda, S., Chiang, J. S., Buyyounouski, M. K., Binkley, M. S., Bagshaw, H. P.
2026; 18 (4): e107174
- **The Impact of Artificial Intelligence Auto Contouring on Resident Education.** *Practical radiation oncology*
Qian, A. S., Kotha, N. V., Porter, E., Ni, L., Phuong, C., Mohebi, F., Sabol, R. A., Chen, J. J., Bagshaw, H. P., Hong, J. C., Braunstein, S.
2025
- **Deconstructing Barriers to 12 Weeks of Parental Leave for Birthing and Nonbirthing Parents in Radiation Oncology Residency Training** *PRACTICAL RADIATION ONCOLOGY*
Klebaner, D., Jagsi, R., Barry, P. N., Bagshaw, H., Masters, A. H., Gibbs, I. C., Small Jr, W., Giuliano, A., Nguyen, K. T., Baniel, C.
2025; 15 (6): 540-544
- **Deconstructing barriers to 12 weeks of parental leave for birthing and non-birthing parents in radiation oncology residency training.** *Practical radiation oncology*
Klebaner, D., Jagsi, R., Barry, P. N., Bagshaw, H., Masters, A. H., Gibbs, I. C., Small, W., Giuliano, A., Nguyen, K. T., Baniel, C.
2025
- **The NorCal brachytherapy waste audit: A simple, validated, toolkit for clinician led waste reduction.** *Brachytherapy*
Baniel, C. C., Lichter, K. E., Frick, M. A., Wu, J., Oladipo, E., Wu, Y. F., SwamyS, A., Hsu, I., Prionas, N., Blomain, E. S., Kidd, E. A., Buyyounouski, M. K., Rosenbluth, et al
2025
- **American Radium Society Appropriate Use Criteria for the Workup and Treatment of Local Intraprostatic Recurrence of Prostate Cancer Following Definitive Radiotherapy.** *European urology oncology*
Valle, L. F., Jiang, T., Rosenbloom, A., Zaorsky, N. G., Hwang, C., Solanki, A., Dickstein, D., Mitin, T., Schroeder, T., Potters, L., Lloyd, S., Showalter, T., Bagshaw, et al

2024

- **Auto-delineation of treatment target volume for radiation therapy using large language model-aided multimodal learning.** *International journal of radiation oncology, biology, physics*
Rajendran, P., Chen, Y., Qiu, L., Niedermayr, T., Liu, W., Buyyounouski, M., Bagshaw, H., Han, B., Yang, Y., Kovalchuk, N., Gu, X., Hancock, S., Xing, et al
2024
- **NCCN Guidelines® Insights: Kidney Cancer, Version 2.2024.** *Journal of the National Comprehensive Cancer Network : JNCCN*
Motzer, R. J., Jonasch, E., Agarwal, N., Alva, A., Bagshaw, H., Baine, M., Beckermann, K., Carlo, M. I., Choueiri, T. K., Costello, B. A., Derweesh, I. H., Desai, A., Ged, et al
2024; 22 (1): 4-16
- **Outcomes with neoadjuvant chemotherapy in bladder-preserving treatment for MIBC**
Glover, M., Ewongwo, A., Usoz, M., Kornberg, Z., Bagshaw, H., Shah, J., Shah, S., Qian, Y.
LIPPINCOTT WILLIAMS & WILKINS.2024: 577
- **Patient-specific Auto-segmentation on Daily kVCT Images for Adaptive Radiotherapy.** *International journal of radiation oncology, biology, physics*
Chen, Y., Gensheimer, M. F., Bagshaw, H. P., Butler, S., Yu, L., Zhou, Y., Shen, L., Kovalchuk, N., Surucu, M., Chang, D. T., Xing, L., Han, B.
2023
- **SUPPORT: SURvey of Parental Leave POLicies of RadiaTion Oncology Programs and Residency Applicants.** *Advances in radiation oncology*
Baniel, C. C., Qu, V., Ponce, S. B., Taparra, K., Beadle, B., Currey, A., Lichter, K. E., Frank, J., Bagshaw, H., Soltys, S., Pollom, E.
2023; 8 (4): 101207
- **Reflections on the 2021 Accreditation Council for Graduate Medical Education and American Board of Radiology Family and Medical Leave of Absence Policies: An Opportunity to Increase Structural Support for Physicians.** *International journal of radiation oncology, biology, physics*
Baniel, C. C., Klebaner, D., Beadle, B. M., Ponce, S. E., Takiar, V., Gibbs, I. C., Soltys, S. G., Bagshaw, H. P., Chang, D. T., Le, Q. T., Pollom, E. L.
2023; 115 (1): 19-22
- **The Reduced Environmental Impact of American Radium Society's 2021 Virtual Annual Meeting**
Lichter, K., Wong, E., Demeulenaere, S., Drew, T., Bagshaw, H., Yom, S.
LIPPINCOTT WILLIAMS & WILKINS.2022: S18
- **The Environmental Impact of Telemedicine in a Radiation Oncology Clinic**
Frick, M., Baniel, C., Lichter, K., Bagshaw, H.
LIPPINCOTT WILLIAMS & WILKINS.2022: S60-S61
- **Environmentally sustainable brachytherapy care.** *Brachytherapy*
Lichter, K. E., Baniel, C. C., Anderson, J., Bhatia, R., Frick, M. A., Thiel, C. L., Gandhi, S., Sarria, G. R., Bagshaw, H. P., Petereit, D., Chino, J., Grover, S., Singer, et al
2022
- **Assessment of Second Primary Cancer Risk Among Men Receiving Primary Radiotherapy vs Surgery for the Treatment of Prostate Cancer.** *JAMA network open*
Bagshaw, H. P., Arnow, K. D., Trickey, A. W., Leppert, J. T., Wren, S. M., Morris, A. M.
2022; 5 (7): e2223025
- **Environmental Outcomes Associated With Transition From In-Person to a Virtual Oncology Conference During the COVID-19 Pandemic.** *JAMA oncology*
Lichter, K. E., Drew, T., Demeulenaere, S., Wong, E., Mohamad, O., Yom, S. S., Bagshaw, H. P.
2022
- **Medical Scribe Impact on Provider Efficiency in Outpatient Radiation Oncology Clinics Before and During the COVID-19 Pandemic.** *Telemedicine reports*
Devine, M., Wang, E., von Eyben, R., Bagshaw, H. P.
2022; 3 (1): 1-6
- **Syndrome of inappropriate secretion of antidiuretic hormone following high dose rate brachytherapy for prostate cancer: a case report.** *BMC urology*

- Ayoola, A., Sodji, Q. H., Chin, S., Panousis, P., Bagshaw, H. P., Buyyounouski, M. K.
2022; 22 (1): 32
- **IMRT and SBRT Treatment Planning Study for the First Clinical Biology-Guided Radiotherapy System.** *Technology in cancer research & treatment*
Pham, D., Simiele, E., Breikreutz, D., Capaldi, D., Han, B., Surucu, M., Oderinde, S., Vitzthum, L., Gensheimer, M., Bagshaw, H., Chin, A., Xing, L., Chang, et al
2022; 21: 15330338221100231
 - **A personalized decision aid for prostate cancer shared decision making.** *BMC medical informatics and decision making*
Bagshaw, H. P., Martinez, A., Heidari, N., Scheinker, D., Pollack, A., Stoyanova, R., Horwitz, E., Morton, G., Kishan, A. U., Buyyounouski, M. K.
1800; 21 (1): 374
 - **An Expert Review on the Combination of Relugolix with Definitive Radiation Therapy for Prostate Cancer.** *International journal of radiation oncology, biology, physics*
Roy, S., Zaorsky, N. G., Bagshaw, H. P., Berlin, A., Koontz, B., Nguyen, P., Chen, R., Dess, R. T., Jackson, W. C., Kishan, A. U., Stish, B., Nagar, H., Posadas, et al
1800
 - **Toxicity After Stereotactic Body Radiation Therapy for Prostate Cancer in Patients With Inflammatory Bowel Disease: A Multi-institutional Matched Case-Control Series.** *Advances in radiation oncology*
Juarez, J. E., Romero, T., Mantz, C. A., Pepin, A., Aghdam, N., Suy, S., Steinberg, M. L., Levin-Epstein, R. G., Nickols, N. G., Kaplan, I. D., Meier, R. M., Pham, H. T., Linson, et al
2021; 6 (6): 100759
 - **Automated Contour Propagation of the Prostate From pCT to CBCT Images via Deep Unsupervised Learning**
Liang, X., Bibault, J. E., Leroy, T., Escande, A., Zhao, W., Chen, Y., Buyyounouski, M. K., Hancock, S. L., Bagshaw, H. P., Xing, L.
ELSEVIER SCIENCE INC.2021: E95
 - **Development and Validation of an Interpretable Artificial Intelligence Model to Predict 10-Year Prostate Cancer Mortality** *CANCERS*
Bibault, J., Hancock, S., Buyyounouski, M. K., Bagshaw, H., Leppert, J. T., Liao, J. C., Xing, L.
2021; 13 (12)
 - **MR to Ultrasound Image Registration with Segmentation-Based Learning for HDR Prostate Brachytherapy**
Chen, Y., Xing, L., Yu, L., Liu, W., Fahimian, B., Niedermayr, T., Bagshaw, H., Buyyounouski, M., Han, B.
WILEY.2021
 - **PSMA- and GRPR-targeted PET: Results from 50 Patients with Biochemically Recurrent Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Baratto, L., Song, H., Duan, H., Hatami, N., Bagshaw, H., Buyyounouski, M., Hancock, S., Shah, S. A., Srinivas, S., Swift, P., Moradi, F., Davidzon, G. A., Iagaru, et al
2021
 - **Automated Contour Propagation of the Prostate From pCT to CBCT Images Via Deep Unsupervised Learning.** *Medical physics*
Liang, X., Bibault, J., Leroy, T., Escande, A., Zhao, W., Chen, Y., Buyyounouski, M. K., Hancock, S. L., Bagshaw, H., Xing, L.
2021
 - **MR to ultrasound image registration with segmentation-based learning for HDR prostate brachytherapy.** *Medical physics*
Chen, Y. n., Xing, L. n., Yu, L. n., Liu, W. n., Fahimian, B. P., Niedermayr, T. n., Bagshaw, H. P., Buyyounouski, M. n., Han, B. n.
2021
 - **Refining the Definition of Biochemical Failure in the Era of Stereotactic Body Radiation Therapy for Prostate Cancer: the Phoenix Definition and Beyond.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Martin Ma, T., Roy, S., Wu, X., Mantz, C., Fuller, D., Miszczyk, L., Napieralska, A., Namysl-Kaletka, A., Bagshaw, H. P., Buyyounouski, M. K., Glicksman, R., Andrew Loblaw, D., Katz, et al
2021
 - **Dose-Response with Stereotactic Body Radiotherapy for Prostate Cancer: A Multi-Institutional Analysis of Prostate-Specific Antigen Kinetics and Biochemical Control.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Levin-Epstein, R. G., Jiang, N. Y., Wang, X., Upadhyaya, S. K., Collins, S. P., Suy, S., Aghdam, N., Mantz, C., Katz, A. J., Miszczyk, L., Napieralska, A., Namysl-Kaletka, A., Prionas, et al

2020

- **Prostate-specific antigen kinetics and biochemical control following stereotactic body radiation therapy, high dose rate brachytherapy, and low dose rate brachytherapy: A multi-institutional analysis of 3,502 patients.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Levin-Epstein, R., Cook, R. R., Wong, J. K., Stock, R. G., Jeffrey Demanes, D., Collins, S. P., Aghdam, N., Suy, S., Mantz, C., Katz, A. J., Nickols, N. G., Miszczyk, L., Napieralska, et al
2020
- **Continuing Medical Student Education During the Coronavirus Disease 2019 (COVID-19) Pandemic: Development of a Virtual Radiation Oncology Clerkship.** *Advances in radiation oncology*
Pollom, E. L., Sandhu, N., Frank, J., Miller, J. A., Obeid, J., Kastelowitz, N., Panjwani, N., Soltys, S. G., Bagshaw, H. P., Donaldson, S. S., Horst, K., Beadle, B. M., Chang, et al
2020; 5 (4): 732–36
- **Deep learning applications in automatic needle segmentation in ultrasound-guided prostate brachytherapy.** *Medical physics*
Wang, F., Xing, L., Bagshaw, H., Buyyounouski, M., Han, B.
2020
- **A Deep Learning Framework for Prostate Localization in Cone Beam CT Guided Radiotherapy.** *Medical physics*
Liang, X. n., Zhao, W. n., Hristov, D. H., Buyyounouski, M. K., Hancock, S. L., Bagshaw, H. n., Zhang, Q. n., Xie, Y. n., Xing, L. n.
2020
- **Executive Summary of the American Radium Society Appropriate Use Criteria for Radiation Treatment of Node-Negative Muscle Invasive Bladder Cancer.** *International journal of radiation oncology, biology, physics*
Dinh, T. T., Mitin, T. n., Bagshaw, H. P., Hoffman, K. E., Hwang, C. n., Karnes, R. J., Kishan, A. U., Liauw, S. L., Lloyd, S. n., Potters, L. n., Showalter, T. N., Taira, A. V., Vapiwala, et al
2020
- **Virtual Radiation Oncology Clerkship During the COVID-19 Pandemic and Beyond.** *International journal of radiation oncology, biology, physics*
Sandhu, N., Frank, J., von Eyben, R., Miller, J., Obeid, J., Kastelowitz, N., Panjwani, N., Soltys, S., Bagshaw, H. P., Donaldson, S. S., Horst, K., Beadle, B. M., Chang, et al
2020; 108 (2): 444–51
- **Automatic intraprostatic lesion segmentation in multiparametric magnetic resonance images with proposed multiple branch Unet.** *Medical physics*
Chen, Y. n., Xing, L. n., Yu, L. n., Bagshaw, H. P., Buyyounouski, M. K., Han, B. n.
2020
- **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease.** *Global spine journal*
Azad, T. D., Varshneya, K., Herrick, D. B., Pendharkar, A. V., Ho, A. L., Stienen, M., Zygourakis, C., Bagshaw, H. P., Veeravagu, A., Ratliff, J. K., Desai, A.
2019: 2192568219889363
- **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease** *GLOBAL SPINE JOURNAL*
Azad, T. D., Varshneya, K., Herrick, D. B., Pendharkar, A., Ho, A. L., Stienen, M., Zygourakis, C., Bagshaw, H. P., Veeravagu, A., Ratliff, J. K., Desai, A.
2019
- **Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT).** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Zhao, W., Han, B., Yang, Y., Buyyounouski, M., Hancock, S. L., Bagshaw, H., Xing, L.
2019; 140: 167–74
- **Multi-institutional Analysis of Prostate-Specific Antigen Kinetics Following Stereotactic Body Radiotherapy (SBRT).** *International journal of radiation oncology, biology, physics*
Jiang, N. Y., Dang, A. T., Yuan, Y., Chu, F., Shabsovich, D., King, C. R., Collins, S. P., Aghdam, N., Suy, S., Mantz, C. A., Miszczyk, L., Napieralska, A., Namysl-Kaletka, et al
2019

- **Evaluating Prostate-Specific Antigen (PSA) Nadir and Bounce After Stereotactic Body Radiotherapy (SBRT) in a Multi-Institutional Cohort**
Jiang, N., Dang, A., Yuan, Y., Chu, F., King, C., Collins, S., Aghdam, N., Suy, S., Miszczyk, L., Mantz, C., Bagshaw, H., Buyyounouski, M., Steinberg, et al
ELSEVIER SCIENCE INC.2019: E17
- **Long-term Outcomes of Stereotactic Body Radiotherapy for Low-Risk and Intermediate-Risk Prostate Cancer** *JAMA NETWORK OPEN*
Kishan, A. U., Dang, A., Katz, A. J., Mantz, C. A., Collins, S. P., Aghdam, N., Chu, F., Kaplan, I. D., Appelbaum, L., Fuller, D. B., Meier, R. M., Loblaw, D., Cheung, et al
2019; 2 (2)
- **Long-term Outcomes of Stereotactic Body Radiotherapy for Low-Risk and Intermediate-Risk Prostate Cancer.** *JAMA network open*
Kishan, A. U., Dang, A., Katz, A. J., Mantz, C. A., Collins, S. P., Aghdam, N., Chu, F., Kaplan, I. D., Appelbaum, L., Fuller, D. B., Meier, R. M., Loblaw, D. A., Cheung, et al
2019; 2 (2): e188006
- **Long-term outcomes of stereotactic body radiotherapy for low- and intermediate-risk prostate adenocarcinoma: A multi-institutional consortium study.**
Kishan, A., Katz, A. J., Mantz, C., Chu, F., Appelbaum, L., Loblaw, A., Cheung, P., Kaplan, I. D., Fuller, D. B., Pham, H. T., Meier, R., Buyyounouski, M. K., Shaverdian, et al
AMER SOC CLINICAL ONCOLOGY.2018
- **Sinoatrial node dysfunction after stereotactic ablative radiation therapy in the chest**
Qian, Y., Dudley, S., Kumar, K., Chaudhuri, A., Chin, A., Harris, J., Prionas, N., Nwachukwu, C., Bagshaw, H., Pollom, E. L., Ben Durkee, Shultz, D., Gensheimer, M. F., et al
AMER SOC CLINICAL ONCOLOGY.2017
- **Adjuvant radiotherapy for atypical meningiomas.** *Journal of neurosurgery*
Bagshaw, H. P., Burt, L. M., Jensen, R. L., Suneja, G., Palmer, C. A., Couldwell, W. T., Shrieve, D. C.
2016: 1-7
- **Vulvar Recurrences After Intensity-modulated Radiation Therapy for Squamous Cell Carcinoma of the Anus.** *American journal of clinical oncology*
Bagshaw, H. P., Sause, W. T., Gawlick, U., Kim, H. T., Whisenant, J., Cannon, G. M.
2016: -?
- **Local Control of Melanoma Brain Metastases Treated with Stereotactic Radiosurgery** *Journal of Radiosurgery & SBRT*
Bagshaw, H. P., Ly, D., Suneja, G., Jensen, R. L., Shrieve, D. C.
2016; 4 (3): 181-190
- **Palladium interstitial implant in combination with external beam radiotherapy and chemotherapy for the definitive treatment of a female urethral carcinoma.** *Gynecologic oncology reports*
Bagshaw, H. P., Williams, N. L., Huang, Y. J., Tward, J. D., Gaffney, D. K.
2015; 13: 40-43
- **Local control after stereotactic radiosurgery for brain metastases in patients with melanoma with and without BRAF mutation and treatment** *JOURNAL OF NEUROSURGERY*
Ly, D., Bagshaw, H. P., Anker, C. J., Tward, J. D., Grossmann, K. F., Jensen, R. L., Shrieve, D. C.
2015; 123 (2): 395-401
- **Patterns of Care With Brachytherapy for Cervical Cancer** *INTERNATIONAL JOURNAL OF GYNECOLOGICAL CANCER*
Bagshaw, H. P., Pappas, L. M., Kepka, D. L., Tward, J. D., Gaffney, D. K.
2014; 24 (9): 1659-1664
- **Does family history of prostate cancer affect outcomes following radiotherapy?** *Radiotherapy and oncology*
Bagshaw, H., Ruth, K., Horwitz, E. M., Chen, D. Y., Buyyounouski, M. K.
2014; 110 (2): 229-234
- **Radiation Therapy in Male Breast Cancer** *Oncology & Hematology Review*
Bagshaw, H. P., Cloyd, J. M., Poppe, M. M., Wapnir, I. L.
2014; 10: 61-65