Stanford

Ryan Brunsing

Clinical Associate Professor, Radiology

Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Imaging Clinic at Blake Wilbur Outpatient Center**

  900 Blake Wilbur Dr

  Palo Alto, CA 94304

  Tel (650) 498-6148 **Fax** (650) 498-8933

Bio

CLINICAL FOCUS

- Diagnostic Radiology
- Hepatobiliary and pancreatic MRI
- MRI-guided interventions
- PET/MRI

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiology

ADMINISTRATIVE APPOINTMENTS

- Medical Director of MRI, Stanford Hospitals and Clinics, (2021- present)
- Member, Minimally Invasive MR Interventional Center (MIMRIC), (2019- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, LI-RADS Steering Committee (2021 - present)

PROFESSIONAL EDUCATION

- Board Certification: Nuclear Radiology, American Board of Radiology (2024)
- Residency: UCSD Dept of Radiology (2018) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (2019)
- Fellowship: Stanford University Body Imaging Fellowship (2018) CA
- Internship: Newton-Wellesley Hospital Transitional Year (2014) MA
- Medical Education: University of New Mexico School of Medicine (2013) NM
- PhD, University of New Mexico , Biomedical Sciences, Immunology (2013)
- BS, University of California San Diego , Majors in Physics & Molecular Biology (2002)

LINKS

- LinkedIn Profile: https://www.linkedin.com/in/ryanbrunsing

Research & Scholarship

CLINICAL TRIALS

- Safety and Diagnostic Efficacy of Mangoral in Participants With Focal Liver Lesions and Reduced Kidney Function, Not Recruiting

Teaching

COURSES

2026-27

- Clinical Seminar Series for Biomedical Physics: BMP 210B, RAD 210B (Spr)

2024-25

- Clinical Seminar Series for Biomedical Physics: BMP 210B, RAD 210B (Spr)

STANFORD ADVISEES

Postdoctoral Research Mentor

Ruiyang Zhao

Publications

PUBLICATIONS

- **Diffusion-weighted Imaging of the Liver: Primed for New Business.** *Radiology*
  Brunsing, R. L., Syed, A. B., Hargreaves, B. A., Ennis, D. B.
  2026; 319 (2): e250157

- **Standardized reporting of extrahepatic cholangiocarcinoma.** *Abdominal radiology (New York)*
  El Homsi, M., Hassan, O. T., O'Brien, C., Singh, C., Arif-Tiwari, H., Becker-Weidman, D. J., Karolyi, D., Bonde, A., Venkatesh, S. K., Brunsing, R. L., Cunha, G. M., Miller, F. H., Costello, et al
  2025

- **Summary from the 2025 International Society for Magnetic Resonance in Medicine workshop on body MRI: Unsolved problems and unmet needs.** *Magnetic resonance in medicine*
  Hecht, E. M., Hu, H. H., Serai, S. D., Wu, H. H., Brunsing, R. L., Guimaraes, A. R., Kurugol, S., Ringe, K. I., Syed, A. B.
  2025

- **MRI features that predict progression of residual disease after ablation of extra-abdominal desmoid fibromatosis.** *European radiology*
  Dux, D. M., Chodakiewitz, Y., Bitton, R., Sewell, S., Sheth, V. R., Ghanouni, P., Brunsing, R. L.
  2025

- **Motion-Compensated Multishot Pancreatic Diffusion-Weighted Imaging With Deep Learning-Based Denoising.** *Investigative radiology*
  Wang, K., Middione, M. J., Loening, A. M., Syed, A. B., Hannum, A. J., Wang, X., Guidon, A., Lan, P., Ennis, D. B., Brunsing, R. L.
  2025

- **Standardizing the reporting of cholangiocarcinoma: the society of abdominal radiology disease focused panel on cholangiocarinoma lexicon** *ABDOMINAL RADIOLOGY*
  Marks, R. M., Arif, H., Bali, M., Brunsing, R. L., Cunha, G. M., Khasawneh, H., El Homsi, M., Singh, C., Paspulati, R., Kierans, A., Qayyum, A.
  2025

- **Spatial transcriptomic analysis drives PET imaging of tight junction protein expression in pancreatic cancer theranostics.** *Nature communications*

Wang, J., Seo, J. W., Kare, A. J., Schneider, M., Pandrala, M., Tumbale, S. K., Raie, M. N., Engudar, G., Zhang, N., Guo, Y., Zhong, X., Ferreira, S., Wu, et al

2024; 15 (1): 10751

- **Editorial for "Multiparametric MRI Scoring System of the Pancreas for the Diagnosis of Chronic Pancreatitis".** *Journal of magnetic resonance imaging : JMRI*

  Brunsing, R. L.

  2024

- **Intraprocedural Diffusion-weighted Imaging for Predicting Ablation Zone during MRI-guided Focused Ultrasound of Prostate Cancer.** *Radiology. Imaging cancer*

  Bitton, R. R., Shao, W., Chodakeiwitz, Y., Brunsing, R. L., Sonn, G., Rusu, M., Ghanouni, P.

  2024; 6 (5): e240009

- **Distortionless, free-breathing, and respiratory resolved 3D diffusion weighted imaging of the abdomen.** *Magnetic resonance in medicine*

  Lee, P. K., Zhou, X., Wang, N., Syed, A. B., Brunsing, R. L., Vasanawala, S. S., Hargreaves, B. A.

  2024

- **Matrix viscoelasticity promotes liver cancer progression in the pre-cirrhotic liver.** *Nature*

  Fan, W., Adebowale, K., Váncza, L., Li, Y., Rabbi, M. F., Kunimoto, K., Chen, D., Mozes, G., Chiu, D. K., Li, Y., Tao, J., Wei, Y., Adeniji, et al

  2024

- **MR-guided focused ultrasound therapy of extra-abdominal desmoid tumors: a multicenter retrospective study of 105 patients.** *European radiology*

  Düx, D. M., Baal, J. D., Bitton, R., Chen, J., Brunsing, R. L., Sheth, V. R., Rosenberg, J., Kim, K., Ozhinsky, E., Avedian, R., Ganjoo, K., Bucknor, M., Dobrotwir, et al

  2023

- **Rare Presentation of Paroxysmal High B-Pee.** *Hypertension (Dallas, Tex. : 1979)*

  Bradshaw, C., Abounasr, A., Brunsing, R. L., Kao, C. S., Reejhsinghani, R., Annes, J. P., Chung, B. I., Mihm, F., Bhalla, V.

  2023

- **Rapid fat-water separated T1 mapping using a single shot radial inversion-recovery spoiled gradient recalled pulse sequence.** *NMR in biomedicine*

  Li, Z., Mathew, M., Syed, A. B., Feng, L., Brunsing, R., Pauly, J. M., Vasanawala, S. S.

  2022

- **Quantification of the Hemodynamic Changes of Cirrhosis with Free-Breathing Self-Navigated MRI.** *Journal of magnetic resonance imaging : JMRI*

  Brunsing, R. L., Brown, D., Almahoud, H., Kono, Y., Loomba, R., Vodkin, I., Sirlin, C. B., Alley, M. T., Vasanawala, S. S., Hsiao, A.

  2021

- **Convolutional neural network-automated hepatobiliary phase adequacy evaluation may optimize examination time.** *European journal of radiology*

  Cunha, G. M., Hasenstab, K. A., Higaki, A. n., Wang, K. n., Delgado, T. n., Brunsing, R. L., Schlein, A. n., Schwartzman, A. n., Hsiao, A. n., Sirlin, C. B., Fowler, K. J.

  2020; 124: 108837

- **Alternative approach of hepatocellular carcinoma surveillance: abbreviated MRI.** *Hepatoma research*

  Brunsing, R. L., Fowler, K. J., Yokoo, T. n., Cunha, G. M., Sirlin, C. B., Marks, R. M.

  2020; 6

- **Gadoxetate-enhanced Abbreviated MRI for Hepatocellular Carcinoma Surveillance: Preliminary Experience.** *Radiology. Imaging cancer*

  Brunsing, R. L., Chen, D. H., Schlein, A., Wolfson, T., Gamst, A., Mamidipalli, A., Violi, N. V., Marks, R. M., Taouli, B., Loomba, R., Kono, Y., Sirlin, C. B.

  2019; 1 (2): e190010

- **Data-driven self-calibration and reconstruction for non-cartesian wave-encoded single-shot fast spin echo using deep learning.** *Journal of magnetic resonance imaging : JMRI*

  Chen, F. n., Cheng, J. Y., Taviani, V. n., Sheth, V. R., Brunsing, R. L., Pauly, J. M., Vasanawala, S. S.

  2019

- **Fully automated convolutional neural network-based affine algorithm improves liver registration and lesion co-localization on hepatobiliary phase T1-weighted MR images.** *European radiology experimental*
  Hasenstab, K. A., Cunha, G. M., Higaki, A. n., Ichikawa, S. n., Wang, K. n., Delgado, T. n., Brunsing, R. L., Schlein, A. n., Bittencourt, L. K., Schwartzman, A. n., Fowler, K. J., Hsiao, A. n., Sirlin, et al
  2019; 3 (1): 43

- **Deep residual network for off-resonance artifact correction with application to pediatric body MRA with 3D cones.** *Magnetic resonance in medicine*
  Zeng, D. Y., Shaikh, J. n., Holmes, S. n., Brunsing, R. L., Pauly, J. M., Nishimura, D. G., Vasanawala, S. S., Cheng, J. Y.
  2019

- **Restriction Spectrum Imaging: An Evolving Imaging Biomarker in Prostate MRI** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Brunsing, R. L., Schenker-Ahmed, N. M., White, N. S., Parsons, J., Kane, C., Kuperman, J., Bartsch, H., Kader, A., Rakow-Penner, R., Seibert, T. M., Margolis, D., Raman, S. S., McDonald, et al
  2017; 45 (2): 323–36

- **The Incidence of Pulmonary Embolism and Associated FDG-PET Findings in IV Contrast-Enhanced PET/CT** *ACADEMIC RADIOLOGY*
  Flavell, R. R., Behr, S. C., Brunsing, R. L., Naeger, D. M., Pampaloni, M.
  2014; 21 (6): 718–25

- **The incidence of pulmonary embolism and associated FDG-PET findings on IV contrast enhanced PET/CT**
  Flavell, R., Behr, S., Brunsing, R., Naeger, D., Pampaloni, M.
  SOC NUCLEAR MEDICINE INC.2014

- **The G Protein-coupled Estrogen Receptor.(GPER) Agonist G-1 Expands the Regulatory T-cell Population Under T(H)17-polarizing Conditions** *JOURNAL OF IMMUNOTHERAPY*
  Brunsing, R. L., Owens, K. S., Prossnitz, E. R.
  2013; 36 (3): 190–96

- **Induction of interleukin-10 in the T helper type 17 effector population by the G protein coupled estrogen receptor (GPER) agonist G-1** *IMMUNOLOGY*
  Brunsing, R. L., Prossnitz, E. R.
  2011; 134 (1): 93–106

- **Signaling through the membrane-bound estrogen receptor GPR30 induces MO and IL17A expression in Th17 cells**
  Brunsing, R., Hathaway, H., Prossnitz, E.
  AMER ASSOC IMMUNOLOGISTS.2010

- **B- and T-cell development both involve activity of the unfolded protein response pathway** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Brunsing, R., Omori, S. A., Weber, F., Bicknell, A., Friend, L., Rickert, R., Niwa, M.
  2008; 283 (26): 17954–61