



Bruce Daniel

Professor of Radiology (Body Imaging) and, by courtesy, of Bioengineering

CLINICAL OFFICE (PRIMARY)

- **Stanford Diagnostic Radiology**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Jocelyn Steffen - Administrative Assistant

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Tel 6507251812

Bio

CLINICAL FOCUS

- Radiology
- Body Imaging

ACADEMIC APPOINTMENTS

- Professor, Radiology
- Professor (By courtesy), Bioengineering
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Gastrointestinal Oncology Tumor Board, Stanford, (1997- present)
- Genito-Urinary Tumor Board, Stanford, (2010- present)
- Breast Cancer Disease Management Group Member, Stanford Cancer Center, (2007- present)
- Chief, Breast MRI Service, Stanford, (2006- present)

HONORS AND AWARDS

- Lauterber Award in MR, Society of Computed Body Tomography and Magnetic Resonance (2008)
- Second Place Poster Awarded [Contributing Author], 5th Interventional MRI Symposium (2004)
- Winner, Young Investigator Award competition, Association for Advancement of Medical Instrumentation (AAMI) (2004)
- Elected Fellow, Society of Computed Body Tomography and Magnetic Resonance (2002)
- Winner of best paper award (North America) [Contributing Author], ESUR-SUR (2002)
- Cum Laude Award [Advisor to award recipient, Rebecca Fahrig, Ph.D.], SCBT/MR (2001)

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- Finalist, Young Investigator Competition [Advisor to first author Janaka Wansapura, Ph.D.], Association for Advancement of Medical Instrumentation (AAMI) (2001)
 - Fellowship Research Trainee Prize [Advisor to award recipient, Rebecca Fahrig, Ph.D.], RSNA 2000 Physics Subcommittee (2000)
 - Moncada Award for an Outstanding Scientific Paper on Cross Sectional Imaging, Society of Computed Body Tomography and Magnetic Resonance (2000)
 - Picker/AUR Faculty Development Program Recipient, - (1999)
 - Gary Becker Award for Outstanding Interventional Radiology Paper, - (1998)
 - Cum Laude Award for an Outstanding Scientific Paper on Cross Sectional Imaging, Society of Computed Body Tomography and Magnetic Resonance (1996)
 - Recipient of National Cancer Institute Cancer Imaging Training Grant Fellowship, Stanford University Department of Radiology (1995-97)
 - Outstanding Scientific Paper by a House Officer, University of Michigan Medical Center Department of Radiology (1995)
 - Outstanding Scientific Paper by a House Officer, University of Michigan Medical Center Department of Radiology (1994)
 - Highest Honors in Physics, Williams College (1985)
 - Howard Stabler prize for honors thesis in Physics, Williams College (1985)
 - Magna Cum Laude, Williams College (1985)
 - Sigma Xi, Williams College (1985)
 - Phi Beta Kappa, Williams College (1984)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Radiology Fellowships (1997) CA
- Residency: University of Michigan Radiology Residency (1995) MI
- Board Certification: Diagnostic Radiology, American Board of Radiology (1995)
- Internship: Mount Sinai Medical Center (1991) NY
- Medical Education: Harvard Medical School (1990) MA
- BA, Williams College (1985)
- MD, Harvard Medical School , Medicine (1990)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

1. MRI of Breast Cancer, particularly new techniques. Currently being explored are techniques including ultra high spatial resolution MRI and contrast-agent-free detection of breast tumors.
2. MRI-guided interventions, especially MRI-compatible remote manipulation and haptics
3. Medical Mixed Reality. Currently being explored are methods of fusing patients and their images to potentially improve breast conserving surgery, and other conditions.

CLINICAL TRIALS

- Magnetic Resonance Imaging of Breast Cancer, Recruiting
- High Resolution 3D Diffusion-weighted Breast MRI, Not Recruiting

Teaching

COURSES

2025-26

- Clinical Needs and Technology: BIOE 301B, BMP 301B (Win)

2024-25

- Clinical Needs and Technology: BIOE 301B, BMP 301B (Win)

2023-24

- Clinical Needs and Technology: BIOE 301B, BMP 301B (Win)
- Mixed-Reality in Medicine: BIOE 206, BMP 206, RAD 206 (Aut)

2022-23

- Clinical Needs and Technology: BIOE 301B (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Trishia El Chemaly, Wally Niu, Xuetong Zhou

Postdoctoral Faculty Sponsor

Kevin Lindsay

Doctoral Dissertation Advisor (AC)

Yuxuan Wu

Publications

PUBLICATIONS

- **Label-free monitoring of embolotherapy via catheter electrochemical impedance spectroscopy.** *Scientific reports*
Vezeridis, A. M., Herwald, S. E., Paik, K. H., Daniel, B. L., Sze, D. Y.
2024; 14 (1): 21310
- **More than meets the eye: Augmented reality in surgical oncology** *JOURNAL OF SURGICAL ONCOLOGY*
Prasad, K., Fassler, C., Miller, A., Aweeda, M., Pruthi, S., Fusco, J. C., Daniel, B., Miga, M., Wu, J., Topf, M. C.
2024
- **Inversion-recovery ultrashort-echo-time (IR-UTE) MRI-based detection of radiation dose heterogeneity in gynecologic cancer patients treated with HDR brachytherapy.** *Radiation oncology (London, England)*
Sheikh, K., Daniel, B. L., Roumeliotis, M., Lee, J., Hrinivich, W. T., Benkert, T., Bhat, H., Seethamraju, R. T., Viswanathan, A. N., Schmidt, E. J.
2024; 19 (1): 105
- **Distortion-free water-fat separated diffusion-weighted imaging using spatiotemporal joint reconstruction.** *Magnetic resonance in medicine*
Zhou, X., Daniel, B. L., Hargreaves, B. A., Lee, P. K.
2024
- **HoloDIEP-Faster and More Accurate Intraoperative DIEA Perforator Mapping Using a Novel Mixed Reality Tool.** *Journal of reconstructive microsurgery*
Necker, F. N., Cholok, D. J., Fischer, M. J., Shaheen, M. S., Gifford, K., Januszzyk, M., Leuze, C. W., Scholz, M., Daniel, B. L., Momeni, A.
2024
- **Leveraging the Apple Ecosystem: Easy Viewing and Sharing of Three-dimensional Perforator Visualizations via iPad/iPhone-based Augmented Reality.** *Plastic and reconstructive surgery. Global open*
Necker, F. N., Cholok, D. J., Shaheen, M. S., Fischer, M. J., Gifford, K., El Chemaly, T., Leuze, C. W., Scholz, M., Daniel, B. L., Momeni, A.

2024; 12 (7): e5940

- **The Reconstructive Metaverse - Collaboration in Real-Time Shared Mixed Reality Environments for Microsurgical Reconstruction.** *Surgical innovation*
Necker, F. N., Cholok, D. J., Shaheen, M. S., Fischer, M. J., Gifford, K., El Chemaly, T., Leuze, C. W., Scholz, M., Daniel, B. L., Momeni, A.
2024: 15533506241262946
- **SCOUT® Localization Using MRI Guidance: Initial Experience.** *Journal of breast imaging*
Dashevsky, B. Z., Yan, P., Liang, T., Daniel, B. L.
2024
- **Suture Packaging as a Marker for Intraoperative Image Alignment in Augmented Reality on Mobile Devices.** *Plastic and reconstructive surgery. Global open*
Necker, F. N., Cholok, D. J., Shaheen, M. S., Fischer, M. J., Gifford, K., Le Castillo, C., Scholz, M., Leuze, C. W., Daniel, B. L., Momeni, A.
2024; 12 (6): e5933
- **Increasing DIEA Perforator Detail in 3D Photorealistic Volume Rendering Visualizations with Skin-masking and Cinematic Anatomy.** *Plastic and reconstructive surgery*
Necker, F. N., Cholok, D. J., Shaheen, M. S., Fischer, M. J., Gifford, K., El Chemaly, T., Leuze, C. W., Scholz, M., Daniel, B. L., Momeni, A.
2024
- **Can a Novel Virtual Reality Simulator, Developed for Standalone HMDs, Effectively Prepare Patients for an MRI Examination?**
Yang, Y., Corona, E., Daniel, B., Leuze, C., IEEE COMPUTER SOC
IEEE COMPUTER SOC.2024: 1037-1038
- **Spatial Fidelity of Microvascular Perforating Vessels as Perceived by Augmented Reality Virtual Projections.** *Plastic and reconstructive surgery*
Cholok, D. J., Fischer, M. J., Leuze, C. W., Januszyk, M., Daniel, B. L., Momeni, A.
2023
- **Virtual Resection Specimen Interaction Using Augmented Reality Holograms to Guide Margin Communication and Flap Sizing.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Necker, F. N., Chang, M., Leuze, C., Topf, M. C., Daniel, B. L., Baik, F. M.
2023
- **Development of augmented reality technology for surgical resection accuracy via improved visualization**
Doan, A. T., Fischer, M. J., Walsh, T. M., Koire, S., Daniel, B. L., Hargreaves, B. A., Black, M. S.
edited by Kress, B. C., Peroz, C.
SPIE-INT SOC OPTICAL ENGINEERING.2023
- **Augmented Reality for Medical Training in Eastern Africa**
Oduor, P., Mushila, L., Cheta, D., Kageha, L., Daniel, B., Nyachiro, L., Okwiri, D., Ogana, S., Ng'abwa, T., Rosenberg, J., Arudo, J., Sum, T., Leuze, et al
IEEE COMPUTER SOC.2023: 891-892
- **The Impact of Occlusion on Depth Perception at Arm's Length.** *IEEE transactions on visualization and computer graphics*
Fischer, M., Rosenberg, J., Leuze, C., Hargreaves, B., Daniel, B.
2023; 29 (11): 4494-4502
- **Multishot Diffusion-Weighted MRI of the Breasts in the Supine vs. Prone Position.** *Journal of magnetic resonance imaging : JMRI*
Moran, C. J., Middione, M. J., Mazzoli, V., McKay-Nault, J. A., Guidon, A., Waheed, U., Rosen, E. L., Poplack, S. P., Rosenberg, J., Ennis, D. B., Hargreaves, B. A., Daniel, B. L.
2022
- **Audiovisual augmentation for coil positioning in transcranial magnetic stimulation** *COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING-IMAGING AND VISUALIZATION*
Schutz, L., Weber, E., Niu, W., Daniel, B., McNab, J., Navab, N., Leuze, C.
2022
- **A Pilot Study of 68Ga-PSMA11 and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*

- Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Thong, A., Kunder, C., Mari Aparici, C., Davidzon, G. A., Moradi, F., Sonn, G. A., Iagaru, A.
2022
- **A Pilot Study of 68Ga-PSMA11 and 68Ga-RM2 PET/MRI for Evaluation of Prostate Cancer Response to High Intensity Focused Ultrasound (HIFU) Therapy.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Davidzon, G. A., Mari Aparici, C., Kunder, C., Sonn, G., Iagaru, A.
2022
 - **A Pilot Study of Ga-68-PSMA11 and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer**
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Thong, A., Sonn, G. A., Kunder, C., Davidzon, G. A., Aparici, C., Moradi, F., Iagaru, A.
SPRINGER.2022: S484
 - **A Pilot Study of Ga-68-PSMA11 and Ga-68-RM2 PET/MRI for Evaluation of Prostate Cancer Response to High Intensity Focused Ultrasound (HIFU) Therapy**
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Davidzon, G. A., Aparici, C., Thong, A., Sonn, G. A., Kunder, C., Iagaru, A.
SPRINGER.2022: S497-S498
 - **Phantom study of SPECT/CT augmented reality for intraoperative localization of sentinel lymph nodes in head and neck melanoma.** *Oral oncology*
Nakamoto, R., Zhuo, J., Guja, K. E., Duan, H., Perkins, S. L., Leuze, C., Daniel, B. L., Franc, B. L.
1800; 125: 105702
 - **Extending Reach Inside the MRI Bore: A 7-DOF, Low-Friction, Hydrostatic Teleoperator**
Frishman, S., Ings, R. D., Sheth, V., Daniel, B. L., Cutkosky, M. R.
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.2021: 701-713
 - **Biopsy Marker Localization with Thermo-Acoustic Ultrasound for Lumpectomy Guidance.** *Medical physics*
Dixit, N., Daniel, B. L., Hargreaves, B. A., Pauly, J. M., Scott, G. C.
2021
 - **A Pilot Study of 68Ga-PSMA11 PET/MRI and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer**
Duan, H., Ferri, V., Ghanouni, P., Daniel, B., Hatami, N., Davidzon, G., Aparici, C., Moradi, F., Thong, A., Sonn, G., Iagaru, A.
SOC NUCLEAR MEDICINE INC.2021
 - **Multishot Diffusion-Weighted MRI of the Breast With Multiplexed Sensitivity Encoding (MUSE) and Shot Locally Low-Rank (Shot-LLR) Reconstructions.** *Journal of magnetic resonance imaging : JMIR*
Hu, Y., Ikeda, D. M., Pittman, S. M., Samarawickrama, D., Guidon, A., Rosenberg, J., Chen, S., Okamoto, S., Daniel, B. L., Hargreaves, B. A., Moran, C. J.
2020
 - **Prognostic values of quantitative and morphological parameters of dbPET in patients with luminal-type breast cancer: A pilot study**
Miyake, K., Nakamoto, Y., Ikeda, D., Iagaru, A., Daniel, B., Lipson, J., Pal, S., Mittra, E., Guo, H., Kanao, S., Kataoka, M., Toi, M., Togashi, et al
SOC NUCLEAR MEDICINE INC.2020
 - **Pure Fibrocystic Change Diagnosed at MRI-guided Vacuum-assisted Breast Biopsy: Imaging Features and Follow-up Outcomes.** *Journal of breast imaging*
Chen, S. T., Okamoto, S., Daniel, B. L., Covelli, J., DeMartini, W. B., Ikeda, D. M.
2020; 2 (2): 141-146
 - **Pure Fibrocystic Change Diagnosed at MRI-guided Vacuum-assisted Breast Biopsy: Imaging Features and Follow-up Outcomes** *JOURNAL OF BREAST IMAGING*
Chen, S., Okamoto, S., Daniel, B. L., Covelli, J., DeMartini, W. B., Ikeda, D. M.
2020; 2 (2): 141-46
 - **Clumped vs non-clumped internal enhancement patterns in linear non-mass enhancement on breast MRI**
Chen, S., Covelli, J., Okamoto, S., Daniel, B., DeMartini, W., Ikeda, D.
AMER ASSOC CANCER RESEARCH.2020
 - **Diffusion-weighted double-echo steady-state with a three-dimensional cones trajectory for non-contrast-enhanced breast MRI.** *Journal of magnetic resonance imaging : JMIR*
Moran, C. J., Cheng, J. Y., Sandino, C. M., Carl, M. n., Alley, M. T., Rosenberg, J. n., Daniel, B. L., Pittman, S. M., Rosen, E. L., Hargreaves, B. A.

2020

- **Evaluation of Different Visualization Techniques for Perception-Based Alignment in Medical AR**
Fischer, M., Leuze, C., Perkins, S., Rosenberg, J., Daniel, B., Martin-Gomez, A., IEEE COMP SOC
IEEE COMPUTER SOC.2020: 45-50
- **Landmark-based mixed-reality perceptual alignment of medical imaging data and accuracy validation in living subjects** *IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*
Leuze, C., Sathyanarayana, S., Daniel, B. L., McNab, J. A.
2020
- **Comparison of head pose tracking methods for mixed-reality neuronavigation for transcranial magnetic stimulation** *SPIE Medical Imaging*
Sathyanarayana, S., Leuze, C., Hargreaves, B., Daniel, B. L., Wetzstein, G., Etkin, A., Bhati, M. T., McNab, J. A.
2020
- **Enabling In-Bore MRI-Guided Biopsies With Force Feedback** *IEEE TRANSACTIONS ON HAPTICS*
Frishman, S., Kight, A., Pirozzi, I., Coffey, M. C., Daniel, B. L., Cutkosky, M. R.
2020; 13 (1): 159–66
- **A Patient-Specific Mixed-Reality Visualization Tool for Thoracic Surgical Planning.** *The Annals of thoracic surgery*
Perkins, S. L., Krajancich, B. n., Jeffrey Yang, C. F., Hargreaves, B. A., Daniel, B. L., Berry, M. F.
2020
- **Clumped vs non-clumped internal enhancement patterns in linear non-mass enhancement on breast MRI.** *The British journal of radiology*
Chen, S. T., Covelli, J. n., Okamoto, S. n., Daniel, B. L., DeMartini, W. B., Ikeda, D. M.
2020: 20201166
- **Application of holographic augmented reality for external approaches to the frontal sinus.** *International forum of allergy & rhinology*
Neves, C. A., Vaisbuch, Y. n., Leuze, C. n., McNab, J. A., Daniel, B. n., Blevins, N. H., Hwang, P. H.
2020
- **RUN-UP: Accelerated multishot diffusion-weighted MRI reconstruction using an unrolled network with U-Net as priors.** *Magnetic resonance in medicine*
Hu, Y. n., Xu, Y. n., Tian, Q. n., Chen, F. n., Shi, X. n., Moran, C. J., Daniel, B. L., Hargreaves, B. A.
2020
- **Multimodality Hyperpolarized C-13 MRS/PET/Multiparametric MR Imaging for Detection and Image-Guided Biopsy of Prostate Cancer: First Experience in a Canine Prostate Cancer Model** *MOLECULAR IMAGING AND BIOLOGY*
Bachawal, S. V., Park, J., Valluru, K. S., Loft, M., Felt, S. A., Vilches-Moure, J. G., Saenz, Y. F., Daniel, B., Iagaru, A., Sonn, G., Cheng, Z., Spielman, D. M., Willmann, et al
2019; 21 (5): 861–70
- **Prostate Magnetic Resonance Imaging Interpretation Varies Substantially Across Radiologists** *EUROPEAN UROLOGY FOCUS*
Sonn, G. A., Fan, R. E., Ghanouni, P., Wang, N. N., Brooks, J. D., Loening, A. M., Daniel, B. L., To'o, K. J., Thong, A. E., Leppert, J. T.
2019; 5 (4): 592–99
- **Multimodality Hyperpolarized C-13 MRS/PET/Multiparametric MR Imaging for Detection and Image-Guided Biopsy of Prostate Cancer: First Experience in a Canine Prostate Cancer Model.** *Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging*
Bachawal, S. V., Park, J. M., Valluru, K. S., Loft, M. D., Felt, S. A., Vilches-Moure, J. G., Saenz, Y. F., Daniel, B., Iagaru, A., Sonn, G., Cheng, Z., Spielman, D. M., Willmann, et al
2019
- **Motion-robust reconstruction of multishot diffusion-weighted images without phase estimation through locally low-rank regularization** *MAGNETIC RESONANCE IN MEDICINE*
Hu, Y., Levine, E. G., Tian, Q., Moran, C. J., Wang, X., Taviani, V., Vasanaawala, S. S., Mcnab, J. A., Daniel, B. L., Hargreaves, B. A.
2019; 81 (2): 1181–90
- **Breast dispersion imaging using undersampled rapid dynamic contrast-enhanced MRI**
Shi, L., Srinivasan, S., Hargreaves, B., Daniel, B.
edited by Mori, K., Hahn, H. K.

SPIE-INT SOC OPTICAL ENGINEERING.2019

- **Spatial integration of radiology and pathology images to characterize breast cancer aggressiveness on pre-surgical MRI**
Rusu, M., Daniel, B., West, R.
edited by Angelini, E. D., Landman, B. A.
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **High-risk lesions diagnosed at MRI-guided vacuum-assisted breast biopsy: imaging characteristics, outcome of surgical excision or imaging follow-up.** *Breast cancer (Tokyo, Japan)*
Okamoto, S. n., Chen, S. T., Covelli, J. D., DeMartini, W. B., Daniel, B. L., Ikeda, D. M.
2019
- **Multi-shot diffusion-weighted MRI reconstruction with magnitude-based spatial-angular locally low-rank regularization (SPA-LLR).** *Magnetic resonance in medicine*
Hu, Y. n., Wang, X. n., Tian, Q. n., Yang, G. n., Daniel, B. n., McNab, J. n., Hargreaves, B. n.
2019
- **Motion-robust reconstruction of multishot diffusion-weighted images without phase estimation through locally low-rank regularization.** *Magnetic resonance in medicine*
Hu, Y., Levine, E. G., Tian, Q., Moran, C. J., Wang, X., Taviani, V., Vasanaawala, S. S., McNab, J. A., Daniel, B. A., Hargreaves, B. L.
2018
- **HoloNeedle: Augmented Reality Guidance System for Needle Placement Investigating the Advantages of Three-Dimensional Needle Shape Reconstruction** *IEEE ROBOTICS AND AUTOMATION LETTERS*
Lin, M. A., Siu, A. F., Bae, J., Cutkosky, M. R., Daniel, B. L.
2018; 3 (4): 4156–62
- **Magnetic resonance imaging and molecular features associated with tumor-infiltrating lymphocytes in breast cancer.** *Breast cancer research : BCR*
Wu, J., Li, X., Teng, X., Rubin, D. L., Napel, S., Daniel, B. L., Li, R.
2018; 20 (1): 101
- **Magnetic resonance imaging and molecular features associated with tumor- infiltrating lymphocytes in breast cancer** *BREAST CANCER RESEARCH*
Wu, J., Li, X., Teng, X., Rubin, D. L., Napel, S., Daniel, B. L., Li, R.
2018; 20
- **Gallium 68 PSMA-11 PET/MR Imaging in Patients with Intermediate- or High-Risk Prostate Cancer** *RADIOLOGY*
Park, S., Zacharias, C., Harrison, C., Fan, R. E., Kunder, C., Hatami, N., Giesel, F., Ghanouni, P., Daniel, B., Loening, A. M., Sonn, G. A., Iagaru, A.
2018; 288 (2): 495–505
- **Intratumoral Spatial Heterogeneity at Perfusion MR Imaging Predicts Recurrence-free Survival in Locally Advanced Breast Cancer Treated with Neoadjuvant Chemotherapy** *RADIOLOGY*
Wu, J., Cao, G., Sun, X., Lee, J., Rubin, D. L., Napel, S., Kurian, A. W., Daniel, B. L., Li, R.
2018; 288 (1): 26–35
- **Gallium 68 PSMA-11 PET/MR Imaging in Patients with Intermediate- or High-Risk Prostate Cancer.** *Radiology*
Park, S. Y., Zacharias, C., Harrison, C., Fan, R. E., Kunder, C., Hatami, N., Giesel, F., Ghanouni, P., Daniel, B., Loening, A. M., Sonn, G. A., Iagaru, A.
2018: 172232
- **Intratumoral Spatial Heterogeneity at Perfusion MR Imaging Predicts Recurrence-free Survival in Locally Advanced Breast Cancer Treated with Neoadjuvant Chemotherapy.** *Radiology*
Wu, J. n., Cao, G. n., Sun, X. n., Lee, J. n., Rubin, D. L., Napel, S. n., Kurian, A. W., Daniel, B. L., Li, R. n.
2018: 172462
- **Imaging of magnetic ink patterns via off-resonance sensitivity.** *Magnetic resonance in medicine*
Perkins, S. L., Daniel, B. L., Hargreaves, B. A.
2018
- **Mixed-reality guidance for brain stimulation treatment of depression**

- Leuze, C., Yang, G., Hargreaves, B., Daniel, B., McNab, J. A., IEEE
IEEE.2018: 377–80
- **MR-Compatible Haptic Display of Membrane Puncture in Robot-Assisted Needle Procedures.** *IEEE transactions on haptics*
Han, A. K., Bae, J. H., Gregoriou, K. C., Ploch, C. J., Goldman, R. E., Glover, G. H., Daniel, B. L., Cutkosky, M. R.
2018
 - **The impact of computed high b-value images on the diagnostic accuracy of DWI for prostate cancer: A receiver operating characteristics analysis.** *Scientific reports*
Ning, P. n., Shi, D. n., Sonn, G. A., Vasanaawala, S. S., Loening, A. M., Ghanouni, P. n., Obara, P. n., Shin, L. K., Fan, R. E., Hargreaves, B. A., Daniel, B. L.
2018; 8 (1): 3409
 - **Artifact-reduced imaging of biopsy needles with 2D multispectral imaging.** *Magnetic resonance in medicine*
Weber, H. n., Hargreaves, B. A., Daniel, B. L.
2018; 80 (2): 655–61
 - **Fat-based registration of breast dynamic contrast enhanced water images.** *Magnetic resonance in medicine*
Srinivasan, S. n., Hargreaves, B. A., Daniel, B. L.
2018; 79 (4): 2408–14
 - **3D Cartesian MRI with compressed sensing and variable view sharing using complementary poisson-disc sampling** *MAGNETIC RESONANCE IN MEDICINE*
Levine, E., Daniel, B., Vasanaawala, S., Hargreaves, B., Saranathan, M.
2017; 77 (5): 1774-1785
 - **Association of morphological and quantitative parameters on dedicated breast PET with the expression status of hormone receptors, HER2 and Ki-67 in breast cancers**
Miyake, K., Ikeda, D., Lagaru, A., Quon, A., Daniel, B., Lipson, J., Pal, S., Mittra, E., Guo, H., Nakamoto, Y., Nishimatsu, K., Kanao, S., Kataoka, et al
SOC NUCLEAR MEDICINE INC.2017
 - **High-resolution diffusion-weighted imaging of the breast with multiband 2D radiofrequency pulses and a generalized parallel imaging reconstruction** *MAGNETIC RESONANCE IN MEDICINE*
Taviani, V., Alley, M. T., Banerjee, S., Nishimura, D. G., Daniel, B. L., Vasanaawala, S. S., Hargreaves, B. A.
2017; 77 (1): 209-220
 - **Prostate Magnetic Resonance Imaging Interpretation Varies Substantially Across Radiologists.** *European urology focus*
Sonn, G. A., Fan, R. E., Ghanouni, P. n., Wang, N. N., Brooks, J. D., Loening, A. M., Daniel, B. L., To'o, K. J., Thong, A. E., Leppert, J. T.
2017
 - **Haptic Feedback of Membrane Puncture with an MR-Compatible Instrumented Needle and Electroactive Polymer Display**
Bae, J., Han, A., Ploch, C. J., Daniel, B. L., Cutkosky, M. R., Gerling, G.
edited by Otaduy, M. A., Ryu, J. H.
IEEE.2017: 54–59
 - **A Mixed-Reality System for Breast Surgical Planning**
Perkins, S. L., Lin, M. A., Srinivasan, S., Wheeler, A. J., Hargreaves, B. A., Daniel, B. L.
edited by Broll, W., Regenbrecht, H., Swan, J. E., Bruder, G., Servieres, M., Sugimoto, M.
IEEE.2017: 269–74
 - **Impact of Breast Density Legislation on Breast Cancer Risk Assessment and Supplemental Screening: A Survey of 110 Radiology Facilities.** *breast journal*
Nayak, L., Miyake, K. K., Leung, J. W., Price, E. R., Liu, Y. I., Joe, B. N., Sickles, E. A., Thomas, W. R., Lipson, J. A., Daniel, B. L., Hargreaves, J., Brenner, R. J., Bassett, et al
2016; 22 (5): 493-500
 - **Five-year results of a prospective clinical trial investigating accelerated partial breast irradiation using 3D conformal radiotherapy after lumpectomy for early stage breast cancer** *BREAST*
Horst, K. C., Fasola, C., Ikeda, D., Daniel, B., Ognibene, G., Goffinet, D. R., Dirbas, F. M.
2016; 28: 178-183

- **3D Cartesian MRI with compressed sensing and variable view sharing using complementary poisson-disc sampling.** *Magnetic resonance in medicine*
Levine, E., Daniel, B., Vasanaawala, S., Hargreaves, B., Saranathan, M.
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