Stanford



Bruce Daniel

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

CLINICAL OFFICE (PRIMARY)

- **Stanford Diagnostic Radiology**

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  Stanford, CA 94305

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Jocelyn Steffen - Administrative Assistant

  Email jsteffen@stanford.edu

  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)

- 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

2026-27

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

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)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Wally Niu, Xuetong Zhou

Postdoctoral Faculty Sponsor

Kevin Lindsay

Doctoral Dissertation Advisor (AC)

Yuxuan Wu

Publications

PUBLICATIONS

- **Markerless augmented reality registration for surgical guidance: a multi-anatomy clinical accuracy study.** *International journal of computer assisted radiology and surgery*
  Yang, Y., Necker, F., Leuze, C., Chen, M., Finegersh, A., Lee, J., Divi, V., Daniel, B., Hargreaves, B., Wu, J. Y., Baik, F. M.
  2026
- **Clinical quality of breath-held T1-weighted breast MRI in the supine position.** *European journal of radiology*
  Zimmermann, J., Vincent, J., Poplack, S. P., Pittman, S. M., Dashevsky, B. Z., Zhou, X., Robb, F., Daniel, B. L., Hargreaves, B. A.
  2026; 202: 112938
- **Perception-first digital twin for augmented reality microsurgery.** *International journal of computer assisted radiology and surgery*
  El Chemaly, T., Fan, Y., Fu, F., Leuze, C., Daniel, B., Hargreaves, B., Blevins, N. H.
  2026
- **EasyREG: Easy Depth-Based Markerless Registration and Tracking using Augmented Reality Device for Surgical Guidance** *IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS*
  Yang, Y., Leuze, C., Hargreaves, B., Daniel, B., Baik, F.
  2026; 32 (5): 4647-4656
- **Standalone Augmented Reality Neuronavigation System for Accurate Pulse Delivery in Transcranial Magnetic Stimulation** *IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS*
  Niu, W. L., Cline, C. C., Daniel, B. L., Leuze, C.
  2026; 32 (5): 4608-4616
- **Multimodal Feedback for Handheld Tool Guidance: Combining Wrist-Based Haptics with Augmented Reality** *IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS*

Yang, Y., Leuze, C., Hargreaves, B., Daniel, B., Baik, F.
2026; 32 (5): 4637-4646

- **MRI Highlights the Hypervascularity of Breast Keloids.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*
  Thompson, C. N., Daniel, B., Peter Lorenz, H., Wapnir, I. L.
  2026; 34 (2): e70148
- **T 2 $$ {\boldsymbol{T}}_{\mathbf{2}} $$ -Weighted Imaging of Water, Fat and Silicone.** *Magnetic resonance in medicine*
  Nurdinova, A., Zhou, X., Oscanoa, J. A., Shah, P., Setsompop, K., Daniel, B. L., Hargreaves, B. A.
  2026
- **Relative SNR Measurements in Supine vs. Prone Breast MRI.** *Magnetic resonance in medicine*
  Hess, J. J., Moran, C. J., Shah, P., Vincent, J., Robb, F. J., Daniel, B. L., Hargreaves, B. A.
  2025
- **Measuring Abdominal Skin-Surface Distances Using Photos for Perforator Mapping Analysis-A Validation Study on 3D-Printed DIEP-Flap Models.** *The international journal of medical robotics + computer assisted surgery : MRCAS*
  Necker, F. N., Cholok, D. J., Fischer, M. J., Gifford, K., Le Castillo, C., Scholz, M., Januszyk, M., Leuze, C. W., Daniel, B. L., Momeni, A.
  2025; 21 (5): e70108
- **Temporal changes in native and late gadolinium enhanced ultrashort echo time magnetic resonance imaging during gynecologic cancer radiation therapy.** *Physics and imaging in radiation oncology*
  Sheikh, K., Daniel, B. L., Roumeliotis, M., Lee, J., Benkert, T., Bhat, H., Su, P., Seethamraju, R. T., Song, D. Y., Viswanathan, A. N., Schmidt, E. J.
  2025; 36: 100883
- **Temporal changes in native and late gadolinium enhanced ultrashort echo time magnetic resonance imaging during gynecologic cancer radiation therapy** *PHYSICS & IMAGING IN RADIATION ONCOLOGY*
  Sheikh, K., Daniel, B. L., Roumeliotis, M., Lee, J., Benkert, T., Bhat, H., Su, P., Seethamraju, R. T., Song, D. Y., Viswanathan, A. N., Schmidt, E. J.
  2025; 36
- **Characterizing the imaging environment for supine breast MRI.** *Magnetic resonance in medicine*
  Zimmermann, J., Vincent, J., Robb, F., Daniel, B. L., Hargreaves, B. A., Moran, C. J.
  2025
- **Holographic Deep Inferior Epigastric Perforator Exploration in Mixed Reality using Real-Time Cinematic Rendering.** *Aesthetic plastic 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.
  2025
- **Localization of sentinel lymph nodes using augmented-reality system: a cadaveric feasibility study.** *European journal of nuclear medicine and molecular imaging*
  Duan, H., Yang, Y., Niu, W. L., Anders, D., Dreisbach, A. M., Holley, D., Franc, B. L., Perkins, S. L., Leuze, C., Daniel, B. L., Baik, F. M.
  2025
- **MRUCT: Mixed Reality Assistance for Acupuncture Guided by Ultrasonic Computed Tomography**
  Wang, X., Yang, Y., Zhou, K., Xie, X., Zhu, L., Song, A., Daniel, B., IEEE COMPUTER SOC
  IEEE COMPUTER SOC.2025: 697-707
- **VR MRI Training for Adolescents: A Comparative Study of Gamified VR, Passive VR, 360° Video, and Traditional Educational Video**
  Yang, Y., Guo, M., Wu, Y., Niu, W., Corona, E., Daniel, B., Leuze, C., Baik, F.
  2025
- **Nested Semi-Transparent Isosurface Simulated Volume-Rendering (NESTIS-VR) - An efficient on-device rendering approach for Augmented Reality headsets increasing surgeon confidence of kidney donor arterial anatomy.** *Computers in biology and medicine*
  Necker, F. N., Melcher, M. L., Busque, S., Leuze, C. W., Ghanouni, P., Le Castillo, C., Nguyen, E., Daniel, B. L.
  2024; 183: 109267
- **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., Januszyk, 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

- **PET/MRI Mixed Reality for Intraoperative Localization of Sentinel Lymph Nodes in Head and Neck Melanoma**
  Duan, H., Daniel, B., Baik, F., Anders, D., Holley, D., Franc, B.
  SOC NUCLEAR MEDICINE INC.2024

- **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

- **Interactive Shape Sonification for Tumor Localization in Breast Cancer Surgery**
  Schuetz, L., El Chemaly, T., Weber, E., Doan, A., Tsai, J., Leuze, C., Daniel, B., Navab, N., ACM
  ASSOC COMPUTING MACHINERY.2024

- **Optimizing Projector Pose Estimation for Selective Lighting in Optical See-Through Mixed Reality Systems**
  Wu, Y., Daniel, B.
  edited by Eck, U., Sra, M., Stefanucci, J., Sugimoto, M., Tatzgern, M., Williams
  IEEE COMPUTER SOC.2024: 371-372

- **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 of68Ga-PSMA11 PET/MRI and68GaRM2 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 : JMRI*
  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 : JMRI*
  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., Vasanawala, 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*
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