Stanford



Garry Gold

Stanford Medicine Professor of Radiology and Biomedical Imaging

NIH Biosketch available Online Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Lucas Center for MR Research**

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  Stanford, CA 94305

  Tel (650) 725-0130 **Fax** (650) 723-5795

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

  Jeslyn Rumbold - Administrative Assistant

  Email hejhog@stanford.edu

  Tel 650-724-0361

Bio

BIO

Garry E. Gold, M.D., is a clinical radiologist and an active investigator specializing in patient-oriented research. Following completion of his Master of Science in Electrical Engineering from Stanford University in 1988, Dr. Gold earned his medical degree in 1992 from the Stanford University School of Medicine. In 1993, he began the Stanford Department of Radiology Residency Program, during which he spent two years serving as an NCI Cancer Imaging Fellow from 1995-1997 under the supervision of Dr. Albert Macovski. After board certification in Radiology, Dr. Gold became an Osteoradiology Fellow at the University of California in San Diego under Dr. Donald Resnick from 1998-1999. He was appointed an Assistant Professor in Stanford's Department of Radiology in January 2000. In 2006, Dr. Gold became an Associate Professor with tenure in the Department of Radiology. In 2011 Dr. Gold was awarded the first phase of this K24 project which has produced many successful clinically oriented researchers (see tables). In 2012, Dr. Gold was promoted to Professor of Radiology and by courtesy Bioengineering and Orthopaedic Surgery. He was also appointed as the Associate Chair for Research in Radiology at Stanford. In 2017, Dr. Gold was appointed as Vice Chair for Research and Organization in the Department.

Dr. Gold has earned an international reputation as a clinical radiologist and patient-oriented researcher specializing in osteoarthritis and translational MRI development. His unique background in electrical engineering and radiology has resulted in over 200 peer-reviewed articles and eight successful patent applications. He is Past President of the International Society for Magnetic Resonance in Medicine (ISMRM) and the Society for Computer Body Tomography and Magnetic Resonance (SCBT/MR). In recognition of his widely respected research and mentoring, he has won multiple honors, including the SCBT/MR Lauterbur Award multiple times. In 2011 he was named a Fellow of the ISMRM and Academy of Radiology Research Distinguished Investigator. In 2013 he was named Faculty of the Year for Stanford Radiology. In 2016 Dr. Gold was named as a Fellow of the American Institute for Medical and Biological Engineering (AIMBE).

CLINICAL FOCUS

- Radiology
- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Professor, Radiology
- Member, Bio-X

- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Co-director, Canary Center for Early Detection, Stanford University, (2024- present)
- Director, Center for Advanced Imaging in Human Performance, Stanford University, (2024- present)
- Department Chair, Stanford University Department of Radiology, (2022-2024)
- Interim Chair, Stanford University Department of Radiology, (2020-2022)
- Vice Chair for Research and Organization, Stanford University Department of Radiology, (2017-2020)
- President, SCBT/MR, (2017-2018)
- President, ISMRM, (2015-2017)
- Chair, Workshop and Study Group Committee, ISMRM, (2014-2015)
- Chair, Workshop and Study Group Committee, ISMRM, (2014-2015)
- Chair, Radiology Compensation Committee, Stanford University, (2013- present)
- Chair, Angel Funds Selection Committee, Stanford University, (2013-2020)
- Chair, Appointment and Promotion Committee, Stanford University Department of Radiology, (2013-2020)
- Chair, Blue Sky Funds Selection Committee, Stanford University, (2013-2020)
- Chair, Student Funds Selection Committee, Stanford University, (2013-2020)
- Chair, VA Chief Faculty Search Committee, Stanford University/Veterans Administration VISN 21, (2013-2015)
- Radiology Biodesign Program Committee, Stanford University, (2013-2015)
- Associate Chair for Research, Stanford University Department of Radiology, (2012-2017)
- Advanced Leadership Development Program, Stanford University, (2012-2013)
- Chair, Annual Meeting Program Committee, ISMRM, (2012-2013)
- Program Committee Vice-Chair and Chair, ISMRM, (2011-2014)
- Vice Chair, Annual Meeting Program Commitee, ISMRM, (2011-2012)
- Leadership Development Program, Stanford University, (2010-2011)
- Principal Investigator, Stanford Radiology & GE Healthcare TIGER Team, Stanford University/General Electric, (2009-2016)
- Chair, Clinical Growth Task Force, ISMRM, (2009-2010)
- Chair, Research Committee, SCBT/MR, (2009-2010)
- Co-Director, Bioengineering Scholarly Concentration, Stanford University, (2007-2015)
- Chair, Radiology Resident Research Program, Stanford University, (2007-2013)
- Chair, GE-Stanford Technical Advisory Board, Stanford University/General Electric, (2007-2009)
- Faculty Fellows, Stanford School of Medicine, (2007-2008)
- President, Musculoskeletal Study Group, ISMRM, (2005-2007)
- Chief, VA MSK Radiology, Stanford University/Veterans Administration VISN 21, (2000-2003)
- Chief, VA Radiology Research Committee, Stanford University/Veterans Administration VISN 21, (2000-2003)

HONORS AND AWARDS

- Gold Medal, ISMRM (2023)

- Gold Medal, SABI (2022)
- Outstanding Teacher Award, ISMRM (2018)
- Lodwick Award for Outstanding Publication in Musculoskeletal Science, Harvard University (2017)
- Fellow, American Institute for Medical and Biological Engineering (2016)
- Faculty of the Year, Stanford University Department of Radiology (2013)
- ARR Distinguished Investigator, Academy of Radiology Research (2012)
- Cum Laude Award, SCBT/MR (2012)
- Fellow, International Society for Magnetic Resonance In Medicine (2011)
- Stanford Firestone Medal for Excellence in Undergraduate Research, Stanford University (2011)
- Young Investigator Award, SCBT/MR (2011)
- Young Investigator Award, SCBT/MR (2010)
- Cum Laude Award, SCBT/MR (2009)
- Thought Leadership Award, GE Healthcare (2009)
- Young Investigator Award, ASB (2009)
- Lauterbur Award, SCBT/MR (2008)
- Moncoda Award, SCBT/MR (2008)
- Cum Laude Award, SCBT/MR (2007)
- Outstanding Teacher Award, ISMRM (2007)
- President's Medal, ISS (2007)
- Lauterbur Award, SCBT/MR (2006)
- Kaiser Award for Innovation in Medical Education, Stanford (2005)
- Lauterbur Award, SCBT/MR (2005)
- SCBT/MR Fellow, SCBT/MR (2005)
- Cum Laude Award, SCBT/MR (2004)
- Lauterbur Award, SCBT/MR (2003)
- President's Award, ARRS (2003)
- Lauterbur Award, SCBT/MR (2002)
- Lauterbur Award, SCBT/MR (2001)
- Resident's Teaching Award, Radiology Dept. (2000)
- Young Investigator Award, Veterans Affairs VISN 21 (2000)
- Cum Laude Award, SCBT/MR (1999)
- Medical Device Network Invention Challenge Award, Stanford University (1999)
- President's Award in Radiology, ARRS (1997)
- Roentgen Resident/Fellow Research Award, RSNA (1996)
- Young Investigator Moore Award, ISMRM (1995)
- Dean's Award for Research, Stanford University School of Medicine (1992)
- Award for Outstanding Engineering Design Project, Hewlett Packard (1988)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Undergraduate Admissions Committee, Stanford University (2015 - 2017)

- Abstract Reviewer, ISHA (2014 - present)
- Abstract Reviewer, ORS (2014 - present)
- Abstract Reviewer, ISMRM (2014 - present)
- Research Development Committee, RSNA (2014 - present)
- Bioengineering PhD Student Admissions Committee, Stanford University (2012 - present)
- Faculty Fellows Selection Committee, Stanford School of Medicine (2012 - present)
- Lucas Service Center Steering Committee, Stanford University (2012 - present)
- Stanford-VA Task Force Committee, Stanford University/Veterans Administration VISN 21 (2012 - present)
- Admissions Committee, Stanford School of Medicine (2009 - 2018)
- Committee for Affiliated Sections, ISMRM (2009 - 2010)
- Board of Trustees, ISMRM (2008 - 2017)
- Radiology Ad-Hoc Committee, Stanford University (2007 - present)
- GE Healthcare MSK MRI Medical Advisory Board, General Electric (2006 - present)
- Clinical Research Scholarly Track Committee, Stanford University (2005 - 2010)
- Committee for Financial Support, ISMRM (2005 - 2008)
- Committee on Student Stipends, ISMRM (2005 - 2008)
- Research Committee, SCBT/MR (2005 - 2008)
- Undergraduate Advising Program, Stanford University (2004 - 2006)
- Imaging Advisory Board of the Osteoarthritis Initiative, National Institutes of Health (2002 - 2009)
- Education Committee, Stanford University (2002 - 2008)
- Curriculum Reform Committee, Stanford School of Medicine (2002 - 2002)
- Education Committee & Course Organizer, ISMRM (2001 - 2004)
- Radiology Education Committee, Stanford University (2000 - 2008)
- Medical School Faculty Senate, Stanford School of Medicine (2000 - 2007)
- Scientific Program Committee, ISMRM (2000 - 2003)
- Medical Scholars Committee, Stanford School of Medicine (1999 - 2004)

PROFESSIONAL EDUCATION

- Fellowship: UCSD Medical Center (1999) CA
- Medical Education: Stanford University School of Medicine (1992) CA
- Residency: Stanford University Radiology Residency (1998) CA
- Internship: Kaiser Permanente Santa Clara Internal Medicine Residency (1993) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (1998)
- M.D., Stanford University , Medicine (1992)
- M.S., Stanford University , Electrical Engineering (1988)
- B.S., Stanford University , Electrical Engineering (1986)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My primary focus is application of new MR imaging technology to musculoskeletal problems. Current projects include: Rapid MRI for Osteoarthritis, Weight-bearing cartilage imaging with MRI, and MRI-based models of muscle. We are studying the application of new MR imaging techniques such as rapid imaging, real-time imaging, and short echo time imaging to learn more about biomechanics and pathology of bones and joints. I am also interested in functional imaging approaches using PET-MRI.

CLINICAL TRIALS

- Effects of an Herbal Topical Cream on Osteoarthritis Symptoms, Biomarkers, and Disease Progression in the Knee, Not Recruiting
- MRI Laryngeal Imaging With a Surface Coil, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Saachi Datta

Postdoctoral Faculty Sponsor

Skylar Holmes, Carly Jones

Doctoral Dissertation Advisor (AC)

Katie Marusich

Postdoctoral Research Mentor

McKenzie White

Publications

PUBLICATIONS

- **OpenMSK: A modular open-source framework for comprehensive analysis of imaging biomarkers in knee osteoarthritis.** *Osteoarthritis and cartilage open*
  Goyal, A., Belibi, F., Sahani, V., Pedersen, R., Vainberg, Y., Williams, A., Chu, C., Haddock, B., Gold, G. E., Chaudhari, A. S., Kogan, F., Gatti, A. A.
  2026; 8 (4): 100886
- **BMI and Varus Malalignment Compound to Define a High-Risk Phenotype for Compartment-Specific Knee Osteoarthritis Progression.** *Osteoarthritis and cartilage*
  White, M. S., Kogan, F., Delp, S. L., Chu, C. R., Sherman, S. L., Pai S, A., Gold, G. E., Chaudhari, A. S., Gatti, A. A.
  2026
- **Relationships between cam morphology and [18F]sodium fluoride PET uptake in asymptomatic hips.** *Skeletal radiology*
  Watkins, L., Datta, S., Goyal, A., Vainberg, Y., Shalit, R., Stevens, K. J., Gold, G. E., Kogan, F.
  2026
- **Deep learning reveals relationships between muscle and adipose tissue and their associations with age, body mass index, and low back pain: A cross-sectional study in 10,835 subjects.** *PLOS digital health*
  Marusich, K. R., Gatti, A. A., Blankemeier, L., Boutin, R. D., Smuck, M., Gold, G. E., Delp, S. L., Chaudhari, A. S.
  2026; 5 (11): e0001788
- **Neural shape models enable cohort-scale simulation of knee cartilage mechanics.** *medRxiv : the preprint server for health sciences*
  Gatti, A. A., Marusich, K. R., Clouthier, A., White, M. S., Ong, C., Esrafilian, A., Smith, C., Kolesar, J., Tan, T., Uhlrich, S., Chu, C., Sherman, S., Gold, et al

2026

- **OpenMSK: A modular open-source framework for comprehensive analysis of imaging biomarkers in knee osteoarthritis** *OSTEOARTHRITIS AND CARTILAGE OPEN*
  Goyal, A., Belibi, F., Sahani, V., Pedersen, R., Vainberg, Y., Williams, A., Chu, C., Haddock, B., Gold, G. E., Chaudhari, A. S., Kogan, F., Gatti, A. A.
  2026; 8 (4)

- **What have we learned about osteoarthritis from imaging?** *Best practice & research. Clinical rheumatology*
  Jones, C. E., Gold, G. E.
  2026: 102207

- **Radiomics-Based Muscle Quality Assessment from Multi-Site Multi-Vendor MRI.** *Research square*
  Cigdem, O., Montin, E., Ghouth, S. B., Chaudhari, A., Cameron, D., Bergeron, C. M., Bergeron, J., Ferrucci, L., Gold, G. E., Lattanzi, R., Deniz, C. M., Mazzoli, V.
  2026

- **US-guided Hydrodissection for Carpal Tunnel Syndrome: An Early Career Perspective.** *Radiology*
  Ghotbi, E., Gold, G. E.
  2026; 321 (1): e262779

- **Neural Shape Modeling Reveals Early and Progressive Femoral Bone Shape and Cartilage Thickness Changes After Anterior Cruciate Ligament Reconstruction.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
  Pai S, A., White, M. S., Black, M. S., Young, K. A., Sherman, S. L., Chu, C. R., Williams, A., Gold, G. E., Kogan, F., Hargreaves, B. A., Chaudhari, A. S., Gatti, A. A.
  2026; 44 (9): e70274

- **Patterns of Muscle Health in Single- and Multi-Site Chronic Pain: A UK Biobank Normative Modeling Study.** *medRxiv : the preprint server for health sciences*
  Kaptan, M., Wang, Y., de Boer, A., Goyal, A., Holmes, S., Ozkan, K., Bédard, S., Indriolo, T., Law, C. S., Pfyffer, D., Fundaun, J., Berhe, E., Gold, et al
  2026

- **MOAKS-BASED OSTEOARTHRITIS SHAPE SCORE (MOSS) ENABLES PREDICTION OF CLINICAL OUTCOMES**
  Pai, S., White, M. S., Gold, G., Kogan, F., Chaudhari, A., Gatti, A.
  ELSEVIER SCI LTD.2026: 978-979

- **BMI and Varus Malalignment Compound to Define a High-Risk Phenotype for Compartment-Specific Knee Osteoarthritis Progression.** *medRxiv : the preprint server for health sciences*
  White, M. S., Kogan, F., Delp, S. L., Chu, C. R., Sherman, S. L., S, A. P., Gold, G. E., Chaudhari, A. S., Gatti, A. A.
  2026

- **REVEALING SYSTEMIC MUSCLE ADAPTATIONS IN KNEE OSTEOARTHRITIS USING NORMATIVE MODELING OF THE UK BIOBANK**
  Holmes, S. C., Wesselink, E. O., Mackey, S., Kogan, F., Gold, G., Weber, K. A., Kaptan, M.
  ELSEVIER SCI LTD.2026: S261-S262

- **RELATIONSHIPS BETWEEN BONY HIP MORPHOLOGY, PAIN, AND METABOLIC BONE ACTIVITY ASSESSED WITH [18F]SODIUM FLUORIDE POSITRON EMISSION TOMOGRAPHY (PET)-MRI**
  Watkins, L., Goyal, A., Vainberg, Y., Shalit, R., Gold, G., Kogan, F.
  ELSEVIER SCI LTD.2026: S354

- **VARUS ALIGNMENT AND BMI JOINTLY ACCELERATE MEDIAL FEMORAL CARTILAGE THINNING: DATA FROM THE OSTEOARTHRITIS INITIATIVE**
  White, M. S., Kogan, F., Delp, S. L., Gold, G., Chaudhari, A., Gatti, A.
  ELSEVIER SCI LTD.2026: S67-S68

- **SEX-SPECIFIC ALTERATIONS IN THIGH MUSCLE QUALITY IN INDIVIDUALS WITH KNEE OSTEOARTHRITIS**
  Belibi, F., Vainberg, Y., White, M. S., Gatti, A., Weber, K. A., Gold, G., Kogan, F., Goyal, A.
  ELSEVIER SCI LTD.2026: S262-S263

- **NEURAL SHAPE MODEL-BASED SCORE OUTPERFORMS CONVENTIONAL MEASURES IN QUANTIFYING EARLY AND PROGRESSIVE JOINT REMODELING IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTED KNEES**
  Pai, S., White, M. S., Black, M. S., Young, K., Sherman, S., Chu, C., Williams, A., Gold, G., Kogan, F., Hargreaves, B., Chaudhari, A., Gatti, A.

ELSEVIER SCI LTD.2026: S271-S272

- **Smartphone video-based knee extension moments during chair rise relate to MRI measures of muscle function.** *medRxiv : the preprint server for health sciences*
  Magruder, R. D., Hall, M., Vainberg, Y., Asay, J. L., Kogan, F., Hicks, J. L., Gold, G. E., Delp, S. L., Uhlrich, S. D., Mazzoli, V.
  2026

- **Advances in cartilage imaging techniques.** *Nature reviews. Rheumatology*
  Guermazi, A., Eckstein, F., Gold, G., Hayashi, D., Jarraya, M., Kogan, F., Li, X., Link, T. M., Nebelung, S., Oei, E. H., Omoumi, P., Saarakkala, S., Trattnig, et al
  2026

- **Smartphone Video-Based Knee Extension Moments During Chair Rise Relate to MRI Measures of Muscle Force-Generating Capacity** *IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING*
  Magruder, R., Hall, M., Vainberg, Y., Asay, J. L., Kogan, F., Hicks, J. L., Gold, G. E., Delp, S. L., Uhlrich, S. D., Mazzoli, V.
  2026; 34: 3824-3831

- **Exploratory analysis of infrapatellar fat pad MRI-based radiomics for detection of knee structure abnormalities in collegiate basketball players and swimmers.** *Osteoarthritis imaging*
  Consolini, J., Koch, K. M., Burge, A. J., Xia, E., Majumdar, S., Gold, G. E., Potter, H. G., Koff, M. F.
  2025; 5 (4): 100379

- **Improved Strength Prediction Combining MRI Biomarkers of Muscle Quantity and Quality.** *NMR in biomedicine*
  Mazzoli, V., Vainberg, Y., Hall, M. E., Barbieri, M., Asay, J., Muccini, J., Rosenberg, J., Kogan, F., Delp, S., Gold, G. E.
  2025; 38 (9): e70112

- **Personalised gait retraining for medial compartment knee osteoarthritis: a randomised controlled trial.** *The Lancet. Rheumatology*
  Uhlrich, S. D., Mazzoli, V., Silder, A., Finlay, A. K., Kogan, F., Gold, G. E., Delp, S. L., Beaupre, G. S., Kolesar, J. A.
  2025

- **Hamstring muscle architecture and microstructure changes following Nordic hamstring exercise training and detraining.** *Journal of sport and health science*
  S, A. P., Andrews, M. H., Gurchiek, R. D., Pincheira, P. A., Barbieri, M., Friedrich, T., Kogan, F., Gold, G. E., Mazzoli, V., Lichtwark, G. A., Delp, S. L., Chaudhari, A. S.
  2025: 101070

- **PATIENT-SPECIFIC CARTILAGE PRESSURES ARE RELATED TO OSTEOARTHRITIS PROGRESSION AND DISEASE SEVERITY**
  Gatti, A. A., Marusich, K. R., Ong, C., Chu, C. R., Esrafilian, A., Delp, S., Gold, G. E., Kogan, F., Chaudhari, A.
  ELSEVIER SCI LTD.2025

- **Unsupervised Training of a Dynamic Context-Aware Deep Denoising Framework for Low-Dose Fluoroscopic Imaging** *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*
  Jeon, S., Wang, S., Wang, A. S., Gold, G. E., Choi, J.
  2025; 74

- **T2 Clusters Are More Sensitive Than Mean T2 Change to Detect Early and Longitudinal Changes in Anterior Cruciate Ligament Reconstructed and Healthy Knees.** *Journal of magnetic resonance imaging : JMRI*
  Pai S, A., Gatti, A. A., Black, M. S., Young, K. A., Desai, A. D., Barbieri, M., Asay, J. L., Sherman, S. L., Gold, G. E., Kogan, F., Hargreaves, B. A., Chaudhari, A. S.
  2024

- **Developing a Research Center for Artificial Intelligence in Medicine.** *Mayo Clinic proceedings. Digital health*
  Langlotz, C. P., Kim, J., Shah, N., Lungren, M. P., Larson, D. B., Datta, S., Li, F. F., O'Hara, R., Montine, T. J., Harrington, R. A., Gold, G. E.
  2024; 2 (4): 677-686

- **ShapeMed-Knee: A Dataset and Neural Shape Model Benchmark for Modeling 3D Femurs.** *IEEE transactions on medical imaging*
  Gatti, A. A., Blankemeier, L., Veen, D. V., Hargreaves, B., Delp, S. L., Gold, G. E., Kogan, F., Chaudhari, A. S.
  2024; PP

- **Low-dose computed tomography perceptual image quality assessment.** *Medical image analysis*
  Lee, W., Wagner, F., Galdran, A., Shi, Y., Xia, W., Wang, G., Mou, X., Ahamed, M. A., Imran, A. A., Oh, J. E., Kim, K., Baek, J. T., Lee, et al

2024; 99: 103343

- **ShapeMed-Knee: A Dataset and Neural Shape Model Benchmark for Modeling 3D Femurs.** *medRxiv : the preprint server for health sciences*
  Gatti, A. A., Blankemeier, L., Van Veen, D., Hargreaves, B., Delp, S. L., Gold, G. E., Kogan, F., Chaudhari, A. S.
  2024

- **Reproducibility of Quantitative Double-Echo Steady-State T2 Mapping of Knee Cartilage.** *Journal of magnetic resonance imaging : JMRI*
  Williams, A. A., Asay, J. L., Asare, D., Desai, A. D., Gold, G. E., Hargreaves, B. A., Chaudhari, A. S., Chu, C. R.
  2024

- **Improved Resolution and Image Quality of Musculoskeletal Magnetic Resonance Imaging using Deep Learning-based Denoising Reconstruction: A Prospective Clinical Study.** *Skeletal radiology*
  Do, H. P., Lockard, C. A., Berkeley, D., Tymkiw, B., Dulude, N., Tashman, S., Gold, G., Gross, J., Kelly, E., Ho, C. P.
  2024

- **A deep learning approach for fast muscle water T2 mapping with subject specific fat T2 calibration from multi-spin-echo acquisitions.** *Scientific reports*
  Barbieri, M., Hooijmans, M. T., Moulin, K., Cork, T. E., Ennis, D. B., Gold, G. E., Kogan, F., Mazzoli, V.
  2024; 14 (1): 8253

- **Correction to: Multimodal positron emission tomography (PET) imaging in non-oncologic musculoskeletal radiology.** *Skeletal radiology*
  Kogan, F., Yoon, D., Teeter, M. G., Chaudhari, A. J., Hales, L., Barbieri, M., Gold, G. E., Vainberg, Y., Goyal, A., Watkins, L.
  2024

- **3D CLUSTERING OF T2 MAPS IDENTIFIES FOCAL CARTILAGE CHANGES FROM 3-WEEKS TO 2-YEARS FOLLOWING ACL RECONSTRUCTION**
  Pai, A. S., Gatti, A. A., Black, M., Young, K., Asay, J., Kogan, F., Sherman, S., Gold, G. E., Hargreaves, B., Chaudhari, A.
  ELSEVIER SCI LTD.2024: S360-S361

- **CARTILAGE CHANGES POST-MENISCECTOMY ARE ASSOCIATED WITH 2-YEAR POST-OPERATIVE GAIT**
  Asay, J. L., Gatti, A. A., Giori, N., Andriacchi, T. P., Gold, G. E.
  ELSEVIER SCI LTD.2024: S156

- **Multimodal positron emission tomography (PET) imaging in non-oncologic musculoskeletal radiology.** *Skeletal radiology*
  Kogan, F., Yoon, D., Teeter, M. G., Chaudhari, A. J., Hales, L., Barbieri, M., Gold, G. E., Vainberg, Y., Goyal, A., Watkins, L.
  2024

- **Efficient Deep-Detector Image Quality Assessment Based on Knowledge Distillation** *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*
  Lee, W., Gold, G., Choi, J.
  2024; 73

- **Accelerated Musculoskeletal Magnetic Resonance Imaging.** *Journal of magnetic resonance imaging : JMRI*
  Yoon, M. A., Gold, G. E., Chaudhari, A. S.
  2023

- **Identifying a stable and generalizable factor structure of major depressive disorder across three large longitudinal cohorts.** *Psychiatry research*
  Tseng, V. W., Tharp, J. A., Reiter, J. E., Ferrer, W., Hong, D. S., Doraiswamy, P. M., Nickels, S.
  2023; 333: 115702

- **Multiparametric MRI of Knees in Collegiate Basketball Players: Associations With Morphological Abnormalities and Functional Deficits.** *Orthopaedic journal of sports medicine*
  Nosrat, C., Gao, K. T., Bhattacharjee, R., Pedoia, V., Koff, M. F., Gold, G. E., Potter, H. G., Majumdar, S.
  2023; 11 (12): 23259671231216490

- **Changes in tissue sodium concentration and sodium relaxation times during the maturation of human knee cartilage: Ex vivo 23 Na MRI study at 10.5 T.** *Magnetic resonance in medicine*
  Zbýň, Š., Ludwig, K. D., Watkins, L. E., Lagore, R. L., Nowacki, A., Tóth, F., Tompkins, M. A., Zhang, L., Adriany, G., Gold, G. E., Shea, K. G., Nagel, A. M., Carlson, et al
  2023

- **Advanced MRI Approaches for Evaluating Common Lower Extremity Injuries in Basketball Players: Current and Emerging Techniques.** *Journal of magnetic resonance imaging : JMRI*
  Rubin, E. B., Schmidt, A. M., Koff, M. F., Kogan, F., Gao, K., Majumdar, S., Potter, H., Gold, G. E.
  2023

- **[Formula: see text] Field inhomogeneity correction for qDESS [Formula: see text] mapping: application to rapid bilateral knee imaging.** *Magma (New York, N.Y.)*
  Barbieri, M., Watkins, L. E., Mazzoli, V., Desai, A. D., Rubin, E., Schmidt, A., Gold, G. E., Hargreaves, B. A., Chaudhari, A. S., Kogan, F.
  2023

- **Accelerated Epigenetic Aging Is Associated With Multiple Cardiometabolic, Hematologic, and Renal Abnormalities: A Project Baseline Health Substudy.** *Circulation. Genomic and precision medicine*
  Uchehara, B., Coulter Kwee, L., Regan, J., Chatterjee, R., Eckstrand, J., Swope, S., Gold, G., Schaack, T., Douglas, P., Mettu, P., Haddad, F., Shore, S., Hernandez, et al
  2023: e003772

- **PREDICTING CHRONIC KNEE PAIN USING AN AUTOMATED MRIBASED BONE AND CARTILAGE STATISTICAL SHAPE MODEL: DATA FROM THE OSTEOARTHRITIS INITIATIVE**
  Gatti, A. A., Kogan, F., Delp, S. L., Gold, G. E., Chaudhari, A. S.
  ELSEVIER SCI LTD.2023: S78-S79

- **Towards Automatic Cartilage Quantification in Clinical Trials - Continuing from the 2019 IWOAI Knee Segmentation Challenge.** *Osteoarthritis imaging*
  Dam, E. B., Desai, A. D., Deniz, C. M., Rajamohan, H. R., Regatte, R., Iriondo, C., Pedoia, V., Majumdar, S., Perslev, M., Igel, C., Pai, A., Gaj, S., Yang, et al
  2023; 3 (1)

- **Denervation during mandibular distraction osteogenesis results in impaired bone formation.** *Scientific reports*
  Tevlin, R., Griffin, M., Chen, K., Januszyk, M., Guardino, N., Spielman, A., Walters, S., Gold, G. E., Chan, C. K., Gurtner, G. C., Wan, D. C., Longaker, M. T.
  2023; 13 (1): 2097

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