

Berkin Bilgic

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ACADEMIC	Associate Professor in Radiology, Harvard Medical School Assistant Professor in Radiology, Harvard Medical School Instructor in Radiology, Harvard Medical School Assistant in Biomedical Imaging, Massachusetts General Hospital Affiliated Faculty, Health Sciences & Technology, Harvard-MIT	Nov 2023 – Jun 2019 – Nov 2023 May 2016 – Jun 2019 May 2016 – Jun 2018 –
INDUSTRY	Consultant, Subtle Medical Inc.	Nov 2018 – Oct 2022
EDUCATION	MIT , Cambridge, MA — PhD in Electrical Engineering and Computer Science Minor in Optimization Methods — SM in Electrical Engineering and Computer Science Bogazici University , Istanbul, Turkey — BS in Electrical & Electronics Eng. (Ranked 1 st in Faculty of Engineering) — BS in Physics (Ranked 1 st in double major program)	Feb 2010 – Jan 2013 GPA: 5.0 / 5.0 Sep 2008 – Jan 2010 GPA: 5.0 / 5.0 Sep 2004 – Jun 2008 GPA: 3.97 / 4.0
RESEARCH TRAINING	Martinos Center for Biomedical Imaging , Charlestown, MA Advisor: Dr. Kawin Setsompop — Research Fellow MIT , Cambridge, MA Advisor: Dr. Elfar Adalsteinsson — Research Assistant Advisors: Dr. Berthold Horn, Dr. Ichiro Masaki — Research Assistant	Feb 2013 – May 2016 Feb 2010 – Feb 2013 Jan 2009 – Jan 2010
HONORS & AWARDS	ISMRM Summa Cum Laude Merit Award: <u>(Mentee) Yohan Jun</u> JSPS Overseas Research Fellowship: <u>(Mentee) Shohei Fujita</u> ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Tae Hyung Kim</u> ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Zijiang Zhang</u> ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Zhifeng Chen</u> ISMRM Research Exchange Grant: <u>(Mentee) Gabriel Verala-Mattatall</u> ISMRM Summa Cum Laude Merit Award: <u>(Mentee) Seohee So</u> ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Tae Hyung Kim</u> Winner of ISMRM Quantitative MR Study Group competition: <u>(Mentee) Seohee So</u> ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Xiaozhi Cao</u> ISMRM Summa Cum Laude Merit Award: <u>(Mentee) Zijiang Zhang</u> ISMRM Summa Cum Laude Merit Award: <u>(Mentee) Wei-Ching (Tina) Lo</u> ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Xiaozhi Cao</u> ISMRM Summa Cum Laude Merit Award: <u>(Mentee) Daniel Polak</u>	2023 2022 2022 2022 2022 2021 2021 2021 2021 2021 2021 2021 2021 2020 2020 2020 2019 2019

Office of China Postdoc Council (OCPC) Fellowship: <u>(Mentee) Zhifeng Chen</u>	2019
ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Frank Yu</u>	2018
Chinese Scholarship Council (CSC) fellowship: <u>(Mentee) Zijiang Zhang</u>	2018
Outstanding Emerging Investigator Award, University of Utah	2017
ISMRM Annual Meeting Outstanding Teacher Award	2017
NVIDIA GPU Grant to support machine learning research	2017
Three ISMRM abstracts awarded Power Pitch presentation (top 3%)	2014, 2017
ISMRM Power Pitch presentation (top 3%): <u>(Mentee) Daniel Polak</u>	2017
ISMRM Magna Cum Laude Merit Award: <u>(Mentee) Daniel Polak</u>	2017
Six ISMRM Summa Cum Laude Merit Awards	2013 – 2016
ISMRM Junior Fellow	2015 –
Magnetic Resonance in Medicine Distinguished Reviewer	2015 – 2019
ISMRM White Matter Study Group student research competition finalist	2015
Honorable Mention for Best Poster, 3 rd Int'l Workshop on MRI Phase Contrast & QSM	2014
Young Investigator Travel Award, 3 rd Int'l Workshop on MRI Phase Contrast & QSM	2014
ISMRM Educational Stipend	2012 – 2014
ISMRM Magna Cum Laude Merit Award	2013
MICCAI Young Scientist Award Finalist	2012
CIMIT – MIT Medical Engineering Fellowship	2011 – 2012
DuPont – MIT Presidential Fellowship	2008 – 2009
Prime Ministry Scholarship, Turkey	2004 – 2008
Ranked 1st in the Faculty of Engineering among Class of 2008, Bogazici University	2008
Ranked 1st in the double major program among Class of 2008, Bogazici University	2008
Ranked 56th out of 1.8 million candidates in the University Entrance Exam, Turkey	2004
Ranked 1st among Class of 2004, Izmir Science High School	2004

**GRANTS
ACTIVE &
SUBMITTED**

NIH UG3/UH3 (PIs: J. Stockmann, B. Bilgic , S. Huang, A. Nummenmaa) <u>Hybrid TMS/MRI system for regionally tailored causal mapping of human cortical circuits and connectivity</u> Role: co-PI	2023 – 2028 ongoing
NIH R01EB034757 (PIs: B. Gagoski, P.E. Grant, B. Bilgic) <u>Low-dose contrast enhanced fast pediatric brain MRI</u> Role: co-PI	2023 – 2028 1 st percentile, pending
NIH R21AG082377 (PIs: B. Bilgic , S. Huang) <u>Submillimeter resolution diffusion MRI of the medial temporal lobe in the earliest stages of Alzheimer's disease</u> Role: co-PI	2023 – 2025 14 th percentile, pending
GE Healthcare PI: (PI: B. Bilgic) <u>Rapid and high-fidelity abdominal diffusion MRI</u> Role: PI	2024 – 2026 to start 4/1/24
NIH R01EB032378 (PIs: Y. Rathi, B. Bilgic) <u>Harmonizing data acquisition, reconstruction, and analysis for reproducible, cross-vendor, open source MRI</u> Role: co-PI	2022 – 2026 ongoing
NIH R03EB031175 (PI: B. Bilgic) <u>Rapid Fetal HASTE MR Imaging</u> Role: PI	2021 – 2024 ongoing
NIH R01 EB028797 (PIs: B. Bilgic , J. Stockmann) <u>Advanced Neuroimaging through Novel Encoding Strategies and Hardware Design</u> Role: co-PI	2020 – 2024 ongoing

	NIH U24NS135561 (PIs: van der Kouwe, Fischl, Huang) <u>An acquisition and analysis pipeline for integrating MRI and neuropathology in TBI-related dementia and VCID</u> Role: Investigator	2023 – 2028 ongoing
	NIH U01EB026996 (PIs: B.R. Rosen, P.J. Basser, S.Y. Huang, L.L. Wald, J.E. Kirsch) <u>Connectome 2.0: developing the next generation human MRI scanner for bridging studies of the micro-, meso- and macro-connectome</u> Role: Investigator	2018 – 2024 ongoing
	NIH R01MH132610 (PIs: O'Donnell, Makris, Rathi) <u>Mapping of the intrinsic and extrinsic cerebellar connectome at ultra high resolution with expert neuroanatomical curation</u> Role: Investigator	2023 – 2028 ongoing
	NIH P41EB030006 (PI: K. Setsompop) <u>Acquisition technology for in vivo functional and structural MR imaging at the mesoscopic scale.</u> Role: Investigator	2020 – 2025 ongoing
GRANTS COMPLETED	NIH U01EB025162 (PIs: D.A. Feinberg, C. Liu, P. Mukherjee, K. Setsompop) <u>MRI Corticography: developing next generation microscale human cortex MRI scanner</u> Role: Investigator	2017 – 2023
	MIT Int'l Science & Technology Initiatives (MISTI) Grant (PI: E. Adalsteinsson) <u>Diffusion Magnetic Resonance Imaging</u> Role: Investigator	2019 – 2021
	MGH ECOR Formulaic Bridge Funding (PIs: B. Bilgic , J. Stockmann) <u>Advanced Neuroimaging through Novel Encoding Strategies and Hardware Design</u> Role: PI	2020
	NIH R01EB020613 (PI: K. Setsompop) <u>Rapid MRI acquisition for pediatric low-grade gliomas</u> Role: Investigator	2016 – 2020
	NIH R01EB017337 (PIs: P.E. Grant, E. Adalsteinsson, L.L. Wald) <u>Advanced fetal imaging</u> Role: Investigator	2014 – 2020
	NIH P41EB015896 (PI: B.R. Rosen) <u>Center for functional imaging technologies</u> Role: Investigator	2014 – 2020
	NIH R01MH116173 (PIs: K. Setsompop, Y. Rathi) <u>Next generation in-vivo diffusion imaging at submillimeter resolution</u> Role: Investigator	2018 – 2023

**INVITED
TALKS**

- IT1. Artificial Intelligence in MRI; Oral presentation at the ISMRM-Endorsed Global Outreach Workshop in Thailand, May 2024, upcoming.
- IT2. High-definition MRI: tailored encoding and reconstruction across scales and field strengths; Oral presentation at the Saban Research Institute, Children's Hospital Los Angeles, February 2024, upcoming.

- IT3. High-definition MRI: tailored encoding and reconstruction across scales and field strengths; Oral presentation at the 8th West-Lake Photonics Symposium, Zhejiang University, November 2023
- IT4. AI technology enables faster, higher-fidelity MRI; Oral presentation, the 9th Turkish Medical World Congress and TUSEB Aziz Sancar Science, Service and Incentive Awards Ceremony, October 2023.
- IT5. High-definition MRI: tailored encoding and reconstruction across scales and field strengths; Oral presentation at Mesoscale Brain Mapping: Bridging Scales and Modalities in Neuroimaging symposium, The Center for Mesoscale Mapping at Massachusetts General Hospital, October 2023.
- IT6. Robust Multimodal Imaging; Educational presentation, ISMRM Workshop on White Matter, Analysis, Translation, Experimental Validation, Evaluation & Reproducibility, September 2023.
- IT7. High-definition MRI: tailored encoding and reconstruction across scales and field strengths; Oral presentation at the Center for Biomedical Imaging, Oral presentation, UMRAM, Bilkent University, August 2023.
- IT8. High-definition MRI: tailored encoding and reconstruction across scales and field strengths; Oral presentation, the Center for Biomedical Imaging, EPFL, March 2023.
- IT9. Efficient MRI through Optimized Encoding and Reconstruction; Oral presentation, the Weill Cornell Medical College, December 2022.
- IT10. Value of Multicontrast Techniques (Neuro); Educational presentation at ISMRM, May 2022.
- IT11. Efficient MRI through improved encoding & reconstruction; Oral presentation, Brain Research Society, Turkey, April 2022.
- IT12. Efficient MRI through Improved Encoding & Reconstruction; Oral presentation, Department of Electrical and Electronics Engineering, Bogazici University, November 2021
- IT13. Efficient MRI through Improved Encoding & Reconstruction; Oral presentation, King's College London, April 2021
- IT14. Efficient EPI through improved encoding & reconstruction; Oral presentation, Donders Institute, Radboud University, March 2021
- IT15. Efficient MRI through Improved Encoding & Reconstruction; Oral presentation, Department of Bioengineering, UIUC, March 2021
- IT16. Efficient MRI through Improved Encoding & Reconstruction; Oral presentation, UMRAM, Bilkent University, Ankara, Turkey, January 2021
- IT17. Efficient MRI through Improved Encoding & Reconstruction, Oral presentation, Fetal Neonatal Neuroimaging and Developmental Science Center, Boston Children's Hospital, June 2020
- IT18. Efficient MRI through Improved Encoding & Reconstruction, Oral presentation, Radiological Sciences Laboratory, Stanford University, April 2020
- IT19. Highly Efficient MRI Through Multi-shot Echo Planar Imaging; Oral presentation at the SPIE Wavelets and Sparsity XVIII conference, August 2019 (presented by Dr C. Liao).
- IT20. Wave Encoding: The Sequence, the Reconstruction & the Trade-Offs; Educational presentation at ISMRM, May 2019.
- IT21. QSM Tools & Their Biases; Educational presentation at ISMRM, May 2019.
- IT22. Basic Physics of Multiband Imaging; Educational presentation at ISMRM, June 2018.
- IT23. Faster MRI through Optimized Encoding and Reconstruction; Oral presentation at the Memorial Sloan Kettering Cancer Center, May 2018
- IT24. Faster MRI through Optimized Encoding and Reconstruction; Oral presentation at the NYU Center for Advanced Imaging Innovation and Research, February 2018
- IT25. Faster MRI through Optimized Encoding and Reconstruction; Oral presentation at the Weill Cornell Medical College, October 2017
- IT26. Faster MRI through Optimized Encoding and Reconstruction; Oral presentation at the University of Utah, Imaging Elevated Symposium, September 2017

- IT27. QSM Software Demo: 2016 Reconstruction Challenge; Oral presentation at ISMRM Weekend Educational Session, April 2017
- IT28. Susceptibility Weighted Imaging and Quantitative Susceptibility Mapping; Oral presentation at the Neuroradiology Division, Massachusetts General Hospital, November 2016
- IT29. Accelerated QSM; Oral presentation at Fourth International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping, September 2016.
- IT30. Advanced Parallel Imaging for Beyond Order of Magnitude Accelerated Neuroimaging; Oral presentation at the Barrow Neurological Institute, Keller Center for Imaging Innovation, July 2015.
- IT31. Sparse Methods for Quantitative Susceptibility Mapping; Oral presentation at the SPIE Wavelets and Sparsity XVI conference, August 2015.
- IT32. Wave-CAIPI for Efficient TSE and QSM Acquisitions with Application in Brain Tumors; Oral presentation at ISMRM Workshop on Simultaneous Multi-Slice Imaging: Neuroscience & Clinical Applications, July 2015.
- IT33. Simultaneous Multi-Slice Acquisition for Rapid Neuroimaging; Oral presentation at OHBM Morning Workshop: Neuroimaging Applications of Simultaneous Multi-Slice Imaging, June 2015.
- IT34. Susceptibility Weighted Data Acquisition and Processing; Oral presentation at MICCAI Workshop on Intelligent Imaging, September 2014.
- IT35. Highly Accelerated 3D Imaging; Oral presentation at the 3rd Magnetic Resonance Balkan Outreach Program, Ankara, Turkey, May 2014.
- IT36. Wave-CAIPI: Highly Accelerated 3D Imaging with Reduced g-factor Penalty; Oral presentation at Boston Children's Hospital, February 2014
- IT37. MRI Image Reconstruction Algorithms: Compressed Sensing & Quantitative Susceptibility Mapping; Oral presentation at UMRAM, Bilkent University, Ankara, Turkey, June 2011.

**PROFFERED
TALKS**

- PT1. 3D-BUDA Enables Rapid Distortion-Free QSM Acquisition; Oral presentation at the International Society for Magnetic Resonance in Medicine 28th Scientific Meeting, 2020
- PT2. From 2D thick slices to 3D isotropic volumetric brain MRI - a deep learning approach; Power pitch presentation at the International Society for Magnetic Resonance in Medicine 28th Scientific Meeting, 2020
- PT3. Robust high-quality multi-shot EPI with low-rank prior and machine learning; Oral presentation at the International Society for Magnetic Resonance in Medicine 27th Scientific Meeting, 2019.
- PT4. NEATR-SMS for Highly Accelerated Multi-Shot EPI; Oral presentation at the ISMRM Workshop on Machine Learning, Part II, 2018
- PT5. Accelerated Multi-shot EPI through Machine Learning and Joint Reconstruction; Oral presentation at the ISMRM Workshop on Machine Learning, 2018
- PT6. Calibrationless Parallel Imaging in Multi Echo/Contrast Data; Power poster presentation at the International Society for Magnetic Resonance in Medicine 25th Scientific Meeting, 2017.
- PT7. Joint Reconstruction of Phase-Cycled Balanced SSFP with Constrained Parallel Imaging; Power poster presentation at the International Society for Magnetic Resonance in Medicine 25th Scientific Meeting, 2017.
- PT8. Joint Reconstruction for Phase-Cycled Balanced SSFP; Oral presentation at the NYU Innovation to Implementation in Imaging Workshop, 2016.
- PT9. Optimized CS-Wave Imaging with Tailored Sampling and Efficient Reconstruction; Oral presentation at the International Society for Magnetic Resonance in Medicine 24th Scientific Meeting, 2016.
- PT10. Rapid Multi-Orientation Susceptibility Mapping with Wave-CAIPI; Oral presentation at the International Society for Magnetic Resonance in Medicine 23rd Scientific Meeting, 2015.
- PT11. RARE/Turbo Spin Echo Imaging with Simultaneous MultiSlice Wave-CAIPI; Oral presentation at the International Society for Magnetic Resonance in Medicine 23rd Scientific Meeting, 2015.
- PT12. Rapid Acquisition for Multi-Orientation QSM; Oral & poster presentation at the 3rd International Workshop on MRI Phase Contrast & QSM, 2014.

- PT13. Single-Step QSM with Fast Reconstruction; Oral & poster presentation at the 3rd International Workshop on MRI Phase Contrast & QSM, 2014.
- PT14. Rapid QSM Acquisition with Wave-CAIPI; Power poster presentation at the International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, 2014.
- PT15. Fast Reconstruction for Regularized Quantitative Susceptibility Mapping; Oral presentation at the International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, 2014.
- PT16. Fast DSI Reconstruction with Trained Dictionaries; Oral presentation at the International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, 2013.
- PT17. Regularized QSM in Seconds; Oral presentation at the International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, 2013.
- PT18. Fast Regularized Reconstruction Tools for QSM and DSI; Oral presentation at ISMRM Workshop on Data Sampling & Image Reconstruction, 2013.
- PT19. Accelerated DSI with Compressed Sensing using Adaptive Dictionaries; Oral presentation at 15th International Conference on Medical Image Computing and Computer Assisted Intervention, 2012.
- PT20. Joint Bayesian Compressed Sensing with Prior Estimate; Oral presentation at the International Society for Magnetic Resonance in Medicine 20th Scientific Meeting, 2012.
- PT21. Joint Bayesian Compressed Sensing for Multi-contrast Reconstruction; Oral presentation at the International Society for Magnetic Resonance in Medicine 19th Scientific Meeting, 2011.
- PT22. Quantitative Susceptibility Map Reconstruction with Magnitude Prior; Oral presentation at the International Society for Magnetic Resonance in Medicine 19th Scientific Meeting, 2011.

**JOURNALS
& BOOK
CHAPTERS**

[PubMed](#)
[Google Scholar](#)
[ResearchGate](#)

- J1. QSM Consensus Organization Committee; **B. Bilgic**, M. Costagli, K.S. Chan, J. Duyn, C. Langkammer, J. Lee, X. Li, C. Liu, J.P. Marques, C. Milovic, S. Robinson, F. Schweser, K. Shmueli, P. Spincemille, S. Straub, P. van Zijl, Y. Wang; ISMRM Electro-Magnetic Tissue Properties Study Group
Recommended Implementation of Quantitative Susceptibility Mapping for Clinical Research in The Brain: A Consensus of the ISMRM Electro-Magnetic Tissue Properties Study Group.
ArXiv. 2023 Jul 5:arXiv:2307.02306v1
- J2. A.S. Kanaan, D. Yu, R. Metere, A. Schäfer, T. Schlumm, **B. Bilgic**, A. Anwander, C.A. Mathews, J.M. Scharf, K. Müller-Vahl, H.E. Möller
Convergent imaging-transcriptomic evidence for disturbed iron homeostasis in Gilles de la Tourette syndrome. *Neurobiol Dis.* 2023 Sep;185:106252. doi: 10.1016/j.nbd.2023.106252.
- J3. S. Aja-Fernández, C. Martín-Martín, A. Planchuelo-Gómez, A. Faiyaz, M.N. Uddin, G. Schifitto, A. Tiwari, S.J. Shigwan, R. Kumar Singh, T. Zheng, Z. Cao, D. Wu, S.B. Blumberg, S. Sen, T. Goodwin-Allcock, P.J. Slator, M.Y. Avci, Z. Li, **B. Bilgic**, Q. Tian, X. Wang, Z. Tang, M. Cabezas, A. Rauland, D. Merhof, R. Manzano Maria, V.P. Campos, T. Santini, M.A. da Costa Vieira, S. HashemizadehKolowri, E. DiBella, C. Peng, Z. Shen, Z. Chen, I. Ullah, M. Mani, H. Abdolmotalleby, S. Eckstrom, S.H. Baete, P. Filipiak, T. Dong, Q. Fan, R. de Luis-García, A. Tristán-Vega, T. Pieciak
Validation of deep learning techniques for quality augmentation in diffusion MRI for clinical studies *Neuroimage Clin.* 2023; 39:103483. doi: 10.1016/j.nicl.2023.103483
- J4. B. Gruber, J.P. Stockmann, A. Mareyam, B. Keil, **B. Bilgic**, Y. Chang, E. Kazemivalipour, A.J.S. Beckett, A.T. Vu, D.A. Feinberg, L.L. Wald
A 128-channel receive array for cortical brain imaging at 7 T. *Magnetic Resonance in Medicine*, 2023, doi: 10.1002/mrm.29798
- J5. A. Heydari, A. Ahmadi, T.H. Kim, **B. Bilgic**
Joint MAPLE: Accelerated joint T1 and T2* mapping with scan-specific self-supervised networks

Magnetic Resonance in Medicine, 2024, doi: 10.1002/mrm.29989

- J6. S. Fujita, B. Gagoski, K.P. Hwang, A. Hagiwara, M. Warntjes, I. Fukunaga, W. Uchida, Y. Saito, T. Sekine, R. Tachibana, T. Muroi, T. Akatsu, A. Kasahara, R. Sato, T. Ueyama, C. Andica, K. Kamagata, S. Amemiya, H. Takao, Y. Hoshino, Y. Tomizawa, K. Yokoyama, **B. Bilgic**, N. Hattori, O. Abe, S. Aoki
Cross-vendor multiparametric mapping of the human brain using 3D-QALAS: A multicenter and multivendor study
Magnetic Resonance in Medicine, 2024, doi: 10.1002/mrm.29939
- J7. G. Ramos-Llordén, D. Park, J.E. Kirsch, A. Scholz, B. Keil, C. Maffei, H.-H. Lee, **B. Bilgic**, B.L. Edlow, C. Mekkaoui, A. Yendiki, T. Witzel, S.Y. Huang
Eddy current-induced artifacts correction in high gradient strength diffusion MRI with dynamic field monitoring: demonstration in ex vivo human brain imaging
Magnetic Resonance in Medicine, 2023, doi: 10.1002/mrm.29873
- J8. Y. Jun, J. Cho, X. Wang, M. Gee, P.E. Grant, **B. Bilgic**[†], B. Gagoski[†]
SSL-QALAS: Self-Supervised Learning for Rapid Multiparameter Estimation in Quantitative MRI Using 3D-QALAS
[†] Equal contribution as first authors
Magnetic Resonance in Medicine, 2023, doi: 10.1002/mrm.29786
- J9. Z. Li, Q. Fan, **B. Bilgic**, G. Wang, W. Wu, J.R. Polimeni, K.L. Miller, S.Y. Huang, Q. Tian
Diffusion MRI data analysis assisted by deep learning synthesized anatomical images (DeepAnat)
Med Image Analysis, 2023, DOI: 10.1016/j.media.2023.102744
- J10. C. Liao, U. Yarach, X. Cao, S.S. Iyer, N. Wang, T.H. Kim, Q. Tian, **B. Bilgic**, A.B. Kerr, K. Setsompop
High-fidelity mesoscale in-vivo diffusion MRI through gSlider-BUDA and circular EPI with S-LORAKS reconstruction
NeuroImage, 2023, DOI: 10.1016/j.neuroimage.2023.120168
- J11. Z. Chen[†], C. Liao[†], X. Cao, B.A. Poser, Z. Xu, W.-C. Lo, M. Wen, J. Cho, Q. Tian, Y. Wang, Y. Feng, L. Xia, W. Chen, F. Liu, **B. Bilgic**
3D-EPI Blip-Up/Down Acquisition (BUDA) with CAIPI and Joint Hankel Structured Low-Rank Reconstruction for Rapid Distortion-Free High-Resolution T2* Mapping.
[†] co-first authors
Magnetic Resonance in Medicine, 2023, DOI: 10.1002/mrm.29578.
- J12. Y. Arefeen, J. Xu, M. Zhang, Z. Dong, F. Wang, J. White, **B. Bilgic**, E. Adalsteinsson
Latent Signal Models: Learning Compact Representations of Signal Evolution for Improved Time-Resolved, Multi-contrast MRI.
Magnetic Resonance in Medicine, 2023, DOI: 10.1002/mrm.29657.
- J13. J. Cho[†], B. Gagoski[†], T.H. Kim, F. Wang, M.K. Manhard, D. Dean III, S. Kecskemeti, A. Caprihan, W.-C. Lo, D.N. Splitthoff, , W. Liu, D. Polak, S. Cauley, K. Setsompop, P.E. Grant[‡], **B. Bilgic**[‡]
Time-efficient, High Resolution 3T Whole Brain Relaxometry using 3D-QALAS with Wave-CAIPI Readouts
[†] co-first authors
[‡] co-last authors
Magnetic Resonance in Medicine, 2023, doi: 10.1002/mrm.29865
- J14. J. Xiao, Z. Li, **B. Bilgic**, J.R. Polimeni, S.Y. Huang, Q. Tian
SRNR: Training neural networks for Super-Resolution MRI using Noisy high-resolution Reference data.
arXiv preprint arXiv:2211.05360
- J15. **B. Bilgic**, T. Cukur
Parallel imaging and reconstruction techniques.
book chapter in Ultra-high field neuro MRI;
editors Guye M, Bloch KM, Poser BA; Elsevier 2022

- J16. J. Cho, B. Gagoski, T.H. Kim, Q. Tian, S.R. Frost, I. Chatnuntawech, **B. Bilgic**
Wave-Encoded Model-based Deep Learning for Highly Accelerated Imaging with Joint Reconstruction.
Bioengineering 2022, 9(12), 736
- J17. G. Ramos-Llordén, R.A. Lobos, T.H. Kim, Q. Tian, T. Witzel, H.H. Lee, A. Scholz, B. Keil, A. Yendiki, **B. Bilgic**, J.P. Haldar, S.Y. Huang
High-fidelity, high-spatial-resolution diffusion MRI of the ex vivo whole human brain at ultra-high gradient strength with structured low-rank EPI ghost correction.
NMR in Biomedicine, 2022, DOI: 10.1002/nbm.4831
- J18. S. So, H.W. Park, B. Kim, F.J. Fritz, B.A. Poser, A. Roebroek, **B. Bilgic**
BUDA-MESMERISE: Rapid acquisition and unsupervised parameter estimation for T1, T2, M0, B0 and B1 maps.
Magnetic Resonance in Medicine, 2022, DOI: 10.1002/mrm.29228.
- J19. Z. Zhang, L. Wang, J. Cho, C. Liao, H.G. Shin, X. Cao, J. Lee, J. Xu, T. Zhang, H. Ye, K. Setsompop, H. Liu, **B. Bilgic**
Blip up-down acquisition for spin- and gradient-echo imaging (BUDA-SAGE) with self-supervised denoising enables efficient T2, T2*, para- and dia-magnetic susceptibility mapping
Magnetic Resonance in Medicine, 2022, DOI: 10.1002/mrm.29219
- J20. Z. Dong, F. Wang, K.S. Chan, T.G. Reese, **B. Bilgic**, J.P. Marques, K. Setsompop
Variable flip angle echo planar time-resolved imaging (vFA-EPTI) for fast high-resolution gradient echo myelin water imaging.
NeuroImage, 2021, DOI: 10.1016/j.neuroimage.2021.117897
- J21. B. Clifford, J. Conklin, S.Y. Huang, T. Feiweier, Z. Hosseini, A.L.M. Goncalves Filho, A. Tabari, S. Demir, W.C. Lo, M.G.F. Longo, M. Lev, P. Schaefer, O. Rapalino, K. Setsompop, **B. Bilgic**, S. Cauley .
An artificial intelligence-accelerated 2-minute multi-shot echo planar imaging protocol for comprehensive high-quality clinical brain imaging.
Magnetic Resonance in Medicine, 2022, DOI: 10.1002/mrm.29117
- J22. S. Demir, B. Clifford, W.C. Lo, A. Tabari, A.L.M. Goncalves Filho, M. Lang, S.F. Cauley, K. Setsompop, **B. Bilgic**, M.H. Lev, P.W. Schaefer, O. Rapalino, S.Y. Huang, T. Hilbert, T. Feiweier, J. Conklin
Optimization of magnetization transfer contrast for EPI FLAIR brain imaging.
Magnetic Resonance in Medicine, 2022, DOI: 10.1002/mrm.29141
- J23. X. Cao, C. Liao, S.S. Iyer, Z. Wang, Z. Zhou, E. Dai, G. Liberman, Z. Dong, T. Gong, H. He, J. Zhong, **B. Bilgic**, K. Setsompop
Optimized multi-axis spiral projection MR fingerprinting with subspace reconstruction for rapid whole-brain high-isotropic-resolution quantitative imaging.
Magnetic Resonance in Medicine, 2022, DOI: 10.1002/mrm.29194
- J24. Q. Fan, C. Eichner, M. Afzali, L. Mueller, C.M.W. Tax, M. Davids, M. Mahmutovic, B. Keil, **B. Bilgic**, K. Setsompop, H.H. Lee, Q. Tian, C. Maffei, G. Ramos-Llordén, A. Nummenmaa, T. Witzel, A. Yendiki, Y.Q. Song, C.C. Huang, C.P. Lin, N. Weiskopf, A. Anwender, D.K. Jones, B.R. Rosen, L.L. Wald, S.Y. Huang
Mapping the Human Connectome using Diffusion MRI at 300 mT/m Gradient Strength: Methodological Advances and Scientific Impact.
NeuroImage, 2022, DOI: 10.1016/j.neuroimage.2022.118958
- J25. Q. Tian, Z. Li, Q. Fan, J.R. Polimeni, **B. Bilgic**, D.H. Salat, S.Y. Huang
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ABSTRACTS

2024

- International Society for Magnetic Resonance in Medicine 32nd Scientific Meeting, Singapore, 2024:
28 abstracts submitted (15 last-author, 13 co-author)

2023

- International Society for Magnetic Resonance in Medicine 31st Scientific Meeting, Toronto, Canada, 2023:
20 abstracts accepted (9 last-author, 11 co-author)
- ISMRM Workshop on Data Sampling & Image Reconstruction, Sedona, AZ, 2023:
8 abstracts accepted (4 last-author, 4 co-author)

2022

- International Society for Magnetic Resonance in Medicine 30th Scientific Meeting, London, UK, 2022:
28 abstracts accepted (11 last-author, 17 co-author)

2021

- International Society for Magnetic Resonance in Medicine 29th Scientific Meeting, 2021:
21 abstracts accepted (8 last-author, 13 co-author)

2020

- A1. W-C Lo, B. Clifford, S. Bollmann, T. Feiweier, S. Giri, C. Liao, J. Cho, S. Cauley, K. Setsompop, **B. Bilgic**; 2-minute Comprehensive Brain Exam Using Multi-Shot EPI with Synergistic Model-Based & Deep Learning Reconstruction; ISMRM Workshop on Data Sampling & Image Reconstruction, Sedona, AZ, USA, 2020
- A2. W. Lee, S. So, J. Cho, C. Liao, Q. Tian, H. Park, E. Adalsteinsson, K. Setsompop, **B. Bilgic**; Rapid Distortion Free Diffusion Imaging Using Joint k/q-Space Reconstruction & Tailored Acquisition; ISMRM Workshop on Data Sampling & Image Reconstruction, Sedona, AZ, USA, 2020
- A3. Q. Tian, **B. Bilgic**, Q. Fan, C. Liao, C. Ngamsombat, Y. Hu, T. Witzel, K. Setsompop, J. Polimeni, S. Huang; High-fidelity diffusion tensor MRI with six diffusion-weighted images using optimized q-space sampling and deep learning; ISMRM Workshop on Data Sampling & Image Reconstruction, Sedona, AZ, USA, 2020
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- A86. S.D. Robinson, K. Eckstein, J.P. Marques, **B. Bilgic**, S. Trattnig, F. Schweser; A comprehensive assessment of methods for combining phase data from array radio-frequency coils at 7 T; International Society for Magnetic Resonance in Medicine 25th Scientific Meeting, Hawaii, 2017, p.3680

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- A87. **B. Bilgic**, T. Witzel, H. Bhat, L.L. Wald, K. Setsompop; Joint Reconstruction for Phase-Cycled Balanced SSFP; ESMRMB 33rd Scientific Meeting, NYU Innovation to Implementation in Imaging Workshop
- A88. **B. Bilgic**, J.P. Marques, L.L. Wald, K. Setsompop; Block Coil Compression for Virtual Body Coil without Phase Singularities; Fourth International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping
- A89. **B. Bilgic**, S.F. Cauley, H. Ye, C. Langkammer, B.A. Poser, K. Setsompop; Accelerated QSM; Fourth International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping
invited abstract
- A90. C. Milovic, **B. Bilgic**, B. Zhao, J. Acosta-Cabronero, C. Tejos; A Fast Algorithm for Nonlinear QSM Reconstruction with Variational Penalties; Fourth International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping
- A91. R. Metere, A.S. Kanaan, A. Schäfer, **B. Bilgic**, T. Schlumm, H.E. Möller; Effects of different coil reconstruction algorithms on QSM results; Fourth International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping
- A92. J. Kim, S. Bollmann, C. Langkammer, **B. Bilgic**; GPU-accelerated Quantitative Susceptibility Map Reconstruction with Total Generalized Variation Regularization; Fourth International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping.
- A93. **B. Bilgic**, H. Ye, L.L. Wald, K. Setsompop; Optimized CS-Wave imaging with tailored sampling and efficient reconstruction; International Society for Magnetic Resonance in Medicine 24th Scientific Meeting, Singapore, 2016, p.612.
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A100. B. Gagoski[†], **B. Bilgic**[†], C. Eichner, H. Bhat, P.E. Grant, L.L. Wald, K. Setsompop; RARE/Turbo Spin Echo Imaging with Simultaneous MultiSlice Wave-CAIPI; International Society for Magnetic Resonance in Medicine 23rd Scientific Meeting, Toronto, Canada, 2015, p. 240.

[†] *Equal Contribution*

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A103. K. Jafari-Khouzani, **B. Bilgic**, J. Kalpathy-Cramer, K. Setsompop; Fast non-local means reconstruction for multi-contrast compressed sensing; International Society for Magnetic Resonance in Medicine 23rd Scientific Meeting, Toronto, Canada, 2015, p.3707.

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A105. S. Cetin, A.P. Fan, **B. Bilgic**, K. Setsompop, G. Unal; Semi-automated visualization and segmentation of cerebral veins from QSM; International Society for Magnetic Resonance in Medicine 23rd Scientific Meeting, Toronto, Canada, 2015, p.2193.

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A107. A. Martin, I. Chatnuntawech, **B. Bilgic**, K. Setsompop, E. Adalsteinsson, E. Schiavi; Total Generalized Variation for Joint Multi-Contrast Parallel Imaging Reconstruction of Undersampled k-space Data; International Society for Magnetic Resonance in Medicine 23rd Scientific Meeting, Toronto, Canada, 2015, p.80.

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A111. A.T. Curtis, **B. Bilgic**, K. Setsompop, R.S. Menon, C.K. Anand; Wave-CS: Combining Wave Encoding and Compressed Sensing; International Society for Magnetic Resonance in Medicine 23rd Scientific Meeting, Toronto, Canada, 2015, p.82.

2014

A112. **B. Bilgic**, C. Langkammer, L.L. Wald, K. Setsompop; Single-Step QSM with Fast Reconstruction; 3rd International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping, Durham, USA, 2014.

- A113. **B. Bilgic**, C. Langkammer, A. Mutluay, L.L. Wald, K. Setsompop; Rapid Acquisition for Multi-Orientation QSM; 3rd International Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping, Durham, USA, 2014 (Honorable mention for best poster)
- A114. **B. Bilgic**, B. Gagoski, S.F. Cauley, A.P. Fan, J.R. Polimeni, P.E. Grant, L.L. Wald, K. Setsompop; Wave-CAIPI Enables Highly Accelerated 3D MRI; 40th Annual Northeast Bioengineering Conference, Boston, USA, 2014.
- A115. **B. Bilgic**, B. Gagoski, S.F. Cauley, A.P. Fan, J.R. Polimeni, P.E. Grant, L.L. Wald, K. Setsompop; Rapid QSM Acquisition with Wave-CAIPI; International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, Milan, Italy, 2014, p.86.
- A116. **B. Bilgic**, A.P. Fan, C. Eichner, J.R. Polimeni, M. Bianciardi, E. Adalsteinsson, L.L. Wald, K. Setsompop; Fast Reconstruction for Regularized Quantitative Susceptibility Mapping; International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, Milan, Italy, 2014, p.601.
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- A123. **B. Bilgic**, I. Chatnuntawech, K. Setsompop, S.F. Cauley, L.L. Wald, E. Adalsteinsson; Fast Regularized Reconstruction Tools for QSM and DSI; ISMRM Workshop on Data Sampling & Image Reconstruction, Sedona, Arizona USA, 2013.
- A124. S.F. Cauley, Y. Xi, **B. Bilgic**, K. Setsompop, J. Xia, E. Adalsteinsson, V.R. Balakrishnan, L.L. Wald; Scalable and Accurate Variance Estimation (SAVE) for Joint Bayesian Compressed Sensing; International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013, p. 2603
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- A126. I. Chatnuntawech, **B. Bilgic**, E. Adalsteinsson; Undersampled Spectroscopic Imaging with Model-based Reconstruction; International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013, p. 3960.
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- A128. S.Y. Huang, E. Adalsteinsson, **B. Bilgic**, S. Foong, L.L. Wald; Localized Electrical Property Retrieval – Theories and Numerical Examples; International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013, p. 4177.

- A129. A.P. Fan, **B. Bilgic**, L. Gagnon, T. Witzel, H. Bhat, B.R. Rosen, E. Adalsteinsson; Quantitative Oxygenation Venogram from MR Phase; International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013.
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- A131. **B. Bilgic**, I. Chatnuntaweck, A.P. Fan, E. Adalsteinsson; Regularized QSM in Seconds; International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013, p. 168.

2012

- A132. **B. Bilgic**, E. Adalsteinsson; Joint Bayesian Compressed Sensing with Prior Estimate; International Society for Magnetic Resonance in Medicine 20th Meeting, Melbourne, Australia, 2012, p. 75.
- A133. **B. Bilgic**, B. Gagoski E. Adalsteinsson; Lipid Suppression in CSI with Highly-Undersampled Peripheral k-space and Spatial Priors; International Society for Magnetic Resonance in Medicine 20th Scientific Meeting, Melbourne, Australia, 2012, p. 4455.
- A134. O.A. Abuhashem, **B. Bilgic**, E. Adalsteinsson; GPU Accelerated Quantitative Susceptibility Mapping; International Society for Magnetic Resonance in Medicine 20th Scientific Meeting, Melbourne, Australia, 2012, p. 3442.
- A135. K. Setsompop, **B. Bilgic**, J. Cohen-Adad, D. Tisdall, B. Keil, T. Witzel, Y. Rathi, V.J. Wedeen, E. Adalsteinsson, L.L. Wald; Whole-Brain DSI in 4 Minutes: Sparse Sampling in q-space with Simultaneous Multi-Slice Acquisitions; International Society for Magnetic Resonance in Medicine 20th Scientific Meeting, Melbourne, Australia, 2012, p. 693.
- A136. B. Gagoski, **B. Bilgic**, T. Kok, E. Adalsteinsson; Accelerated Chemical Shift Imaging with Compressed Sensing; International Society for Magnetic Resonance in Medicine 20th Scientific Meeting, Melbourne, Australia, 2012, p. 708.
- A137. T. Kok, **B. Bilgic**, B. Gagoski, E. Adalsteinsson; Lipid Artifact Suppression for Detection of Cortical Metabolites in High-Resolution CTPRESS; International Society for Magnetic Resonance in Medicine 20th Scientific Meeting, Melbourne, Australia, 2012, p. 710.
- A138. A.P. Fan, **B. Bilgic**, K.A. Heberlein, B. R. Rosen, E. Adalsteinsson; Quantification of the Cerebral Metabolic Rate of Oxygen (CMRO₂) across the Cortex using Phase-Based Regional Oxygen Metabolism (PROM) MRI; International Society for Magnetic Resonance in Medicine 20th Scientific Meeting, Melbourne, Australia, 2012, p. 2370.

2011

- A139. **B. Bilgic**, V.K. Goyal, E. Adalsteinsson; Joint Bayesian Compressed Sensing for Multi-contrast Reconstruction; International Society for Magnetic Resonance in Medicine 19th Scientific Meeting, Montreal, Canada, 2011, p. 71.
- A140. **B. Bilgic**, A.P. Fan, E. Adalsteinsson; Quantitative Susceptibility Map Reconstruction with Magnitude Prior; International Society for Magnetic Resonance in Medicine 19th Scientific Meeting, Montreal, Canada, 2011, p. 746.
- A141. T. Kok, **B. Bilgic**, E. Adalsteinsson; Multi Task Bayesian Compressed Sensing in Sparse 2D Spectroscopy; International Society for Magnetic Resonance in Medicine 19th Scientific Meeting, Montreal, Canada, 2011, p. 1448.
- A142. A.P. Fan, **B. Bilgic**, T. Benner, B. R. Rosen, E. Adalsteinsson; Regularized Quantitative Susceptibility Mapping for Phase-based Regional Oxygen Metabolism (PROM) at 7T; International Society for Magnetic Resonance in Medicine 19th Scientific Meeting, Montreal, Canada, 2011, p. 4472.

THESES

- T1. **B. Bilgic**; Reconstruction Algorithms for MRI; Ph.D. thesis, Massachusetts Institute of Technology, Department of EECS, February 2013.

- T2. **B. Bilgic**; Fast Human Detection with Cascaded Ensembles; S.M. thesis, Massachusetts Institute of Technology, Department of EECS, February 2010.

PATENTS

- P1. Q. Tian, S.Y. Huang, **B. Bilgic**; Fast diffusion tensor MRI using deep learning; WO2020198582A1
- P2. Q. Tian, S.Y. Huang, **B. Bilgic**, J.R. Polimeni; Super-resolution anatomical magnetic resonance imaging using deep learning for cerebral cortex segmentation; US20200311926A1
- P3. **B. Bilgic**, S. Han, S.F. Cauley, L.L. Wald, K. Setsompop; Improved multi-shot echo planar imaging through machine learning; US20210364589A1
- P4. K. Setsompop, T. Beck, **B. Bilgic**, D. Polak; Method and apparatus for accelerated magnetic resonance imaging; US Patent App. US20180164395A1
- P5. **B. Bilgic**, K. Setsompop, D. Polak, H. Ye, L.L. Wald; Method for simultaneous time-interleaved multislice magnetic resonance imaging; US Patent App. 15/592,851
- P6. K. Setsompop, **B. Bilgic**, L.L. Wald, T. Witzel; Systems and methods for slice dithered enhanced resolution simultaneous multislice magnetic resonance imaging; Application WO2016171759A1
- P7. S.F. Cauley, **B. Bilgic**, K. Setsompop, L.L. Wald; Systems and Methods for Fast Magnetic Resonance Image Reconstruction Using a Hierarchically Semiseparable Solver; US Patent App. 14/707,598
- P8. **B. Bilgic**, K. Setsompop, L.L. Wald; Simultaneous Multi-Slice MRI with Random Gradient Encoding; US Patent App. 15/114,999
- P9. **B. Bilgic**, K. Setsompop; Systems and methods for fast reconstruction for quantitative susceptibility mapping using magnetic resonance imaging; US Patent 9,542,763
- P10. **B. Bilgic**, E. Adalsteinsson; Multi-contrast image reconstruction with joint Bayesian compressed sensing; US Patent 9,336,611

TEACHING

MIT, Cambridge, MA

- **Course Director** in HST 584: Magnetic Resonance: Analytic, Biochemical, and Imaging Tech. Spring 2018, 2021, 2023
- **Guest Lecturer** in HST 580: Data Acquisition and Image Reconstruction in MRI Fall 2013, 2015
- **Guest Lecturer** in 6.555: Biomedical Signal and Image Processing Spring 2011, 2012, 2013
- **Guest Lecturer** in HST 584: Magnetic Resonance: Analytic, Biochemical, and Imaging Tech. Spring 2012, 2016
- **Guest Lecturer** in HST 583: Functional Magnetic Resonance Imaging: Data Acquisition and Analysis Fall 2022
- **Teaching Assistant** in 6.882: Computational Photography Spring 2010

Harvard Medical School, Boston, MA

- **Lecturer** for Harvard Catalyst MRI course Spring 2017

Bogazici University, Istanbul, Turkey

- **Student Assistant** for Information and Entropy Spring 2007

GRADUATE

COURSES

Discrete-Time Signal Processing (A+),
Quantitative Physiology: Cells & Tissues (A+)
Machine Learning (A)
Optimization Methods (A+)
Nonlinear Programming (A)
Advances in Computer Vision (A+),
Magnetic Reson.: Analytic, Biochemical, & Imaging Tech. (A)

SERVICE

Membership: International Society of Magnetic Resonance in Medicine (ISMRM), full member

Grant review:

CTIS study section, NIH, 2022, 2023, ad-hoc reviewer
Methods Review Panel, PCORI, 2023, ad-hoc reviewer

Editorial board: Guest Editor, NeuroImage, Special Issue on Susceptibility Imaging in Neurodegeneration and Aging, 2021 – 2023

Moderator:

Joint Workshop on MR phase, magnetic susceptibility and electrical properties mapping, 2022
Scientific Meetings of ISMRM, 2016 – 2020, 2022 – 2023
MRI Together Workshop, 2021
ISMRM Electro-Magnetic Tissue Properties (EMTP) study group virtual meeting, 2020
4th International Workshop on MRI Phase Contrast & QSM, 2016
ISMRM Workshop on Simultaneous Multi-Slice Imaging, 2015
3rd Magnetic Resonance Balkan Outreach Program, 2014

Faculty:

Scientific Meetings of ISMRM, 2017 – 2019, 2022
Highlight session: Novel Acquisition/Reconstruction & Dealing with Motion/Artifacts, ISMRM, 2020

Organizer / steering committee:

ISMRM Annual Meeting Program Committee member, 2023 – 2026
ISMRM Member Initiated Symposium on Vendor-agnostic Pulse Sequence programming and Image Reconstruction, 2023
Joint Workshop on MR phase, magnetic susceptibility and electrical properties mapping, 2022
ISMRM-endorsed Workshop on MRI Acquisition and Reconstruction, 2021
5th International Workshop on MRI Phase Contrast & QSM, 2019
QSM Reconstruction Challenge 2.0, 2019
QSM Reconstruction Challenge, 2016
Martinos Center BrainMap Seminar, 2016 – 2017
3rd Magnetic Resonance Balkan Outreach Program, 2014

Leadership:

Chair of the EMTP study group, ISMRM, 2021
Vice-chair of the EMTP study group, ISMRM, 2020
Secretary of the EMTP study group, ISMRM, 2019

Reviewer Service:

— NeuroImage
— PLOS ONE
— Magnetic Resonance in Medicine
— Journal of Magnetic Resonance Imaging
— NMR in Biomedicine
— Brain Structure and Function
— Frontiers in Human Neuroscience
— Magnetic Resonance Imaging
— Journal of the American Aging Association

- American Journal of Neuroradiology
- World NeuroSurgery
- IEEE Transactions on Image Processing
- IEEE Transactions on Medical Imaging
- IEEE Signal Processing Letters
- International Conf. on Medical Image Computing & Computer Assist. Intervention, 2012 & 2013
- International Society for Magnetic Resonance in Medicine Scientific Meeting, 2012
- 2nd Int'l Workshop on MRI Phase Contrast & Quantitative Susceptibility Mapping, 2013
- International IEEE Conference on Intelligent Transportation Systems, 2010 & 2011
- International Symposium on Biomedical Imaging: From Nano To Macro, 2015

VITA Citizenship: USA

Language: Turkish, English