

AARYANI TIPIRNENI-SAJJA, PHD

The University of Memphis
Department of Biomedical Engineering
321C Engineering Technology Building
Memphis, TN 38152

Phone: 901-678-3772 (office)
Phone: 901-361-5958 (mobile)
Email: Aaryani.Sajja@memphis.edu
Aaryani.Sajja@stjude.org

EDUCATION

PhD, Biomedical Engineering (GPA: 4.0)	2013 – 2017
University of Memphis & University of Tennessee Health Science Center, TN, USA	
M.S, Biomedical Engineering (GPA: 4.0)	2007 – 2010
University of Memphis & University of Tennessee Health Science Center, TN, USA	
B.E, Biomedical Engineering (GPA: 4.0)	2003 – 2007
Osmania University College of Engineering, Hyderabad, India	

EXPERIENCE

- | | |
|---|-----------------------|
| ▪ ASSISTANT PROFESSOR
The University of Memphis, Memphis, TN | Aug 2018 – present |
| ▪ VISITING SCIENTIST
St. Jude Children's Research Hospital | Sep 2019 – present |
| ▪ POSTDOCTORAL FELLOW
St. Jude Children's Research Hospital, Memphis, TN | Sep 2017 – Aug 2018 |
| ▪ PHD RESEARCH ASSISTANT
St. Jude Children's Research Hospital, Memphis, TN
<u>Dissertation</u> : Towards Accurate Automated MRI based R2* measurements of hepatic iron content | Sep 2013 – Aug 2017 |
| ▪ RESEARCH ASSOCIATE
Stanford Stroke Center & Department of Radiology, Stanford University, CA | Feb 2011 – Aug 2013 |
| ▪ IMAGING ANALYST
Stroke Sciences Group, UCSF Medical Center, San Francisco, CA | Nov 2010 – Jan 2011 |
| ▪ GRADUATE RESEARCH ASSISTANT
St. Jude Children's Research Hospital, Memphis, TN
<u>Thesis</u> : Measurement of glomerular filtration rate by dynamic contrast-enhanced (DCE) MRI using a subject-specific two-compartment model | May 2008 – Aug 2010 |
| ▪ UNDERGRADUATE RESEARCH ASSISTANT
Osmania University College of Engineering, India
<u>Project</u> : Design and development of a microcontroller-based electro-oculography system for measurement of saccadic eye movements | Aug 2006 – April 2007 |

TEACHING

- BIOM 1702 – Biomedical Spatial Visualization
- BIOM 3010 - Introduction to Medical Measurements (Lecture & Lab)
- BIOM 3710 - Physiological Systems & Modeling
- BIOM 4784 – Senior Design Studio
- BIOM 4901/6901 – Introduction to Medical Imaging

HONORS & CERTIFICATIONS

ISMRM Merit Award, magna cum laude, ISMRM 22nd Scientific Meeting, 2014

Educational Stipend, ISMRM Scientific Meeting, 2009, 2014, 2015, 2017

Graduate Stipend Enhancement Award, University of Memphis, 2013-2014

Award for Merit, Academic excellence, Osmania University, 2007

Best Project Award, Osmania University, 2007

IDEA Pulse Programming Certification, Siemens Healthineers, 2018

NETI 1B, National Effective Teaching Institute, ASEE, 2019

Faculty Summer Institute Mastery Track, UM3D, University of Memphis, 2020

PROFESSIONAL SOCIETIES

International Society for Magnetic Resonance in Medicine 2009, 2014 - present

American Roentgen Ray Society 2016 – present

Biomedical Engineering Society 2018 – present

SERVICE

Grant Reviewer

NIH Image Guided Interventions and Surgery Study Section Jan 2021 – Feb 2021

National Science Foundation Graduate Research Fellowship Dec 2020 – Jan 2021

National Defense Science and Engineering Graduate Fellowship Dec 2020 – Jan 2021

Department of Defense Peer Reviewed Medical Research Program July 2020

Journal Reviewer

European Radiology 2015 – present

Pediatric Radiology 2015 – present

Journal of Cerebral Blood Flow & Metabolism 2016 – present

Journal of Magnetic Resonance Imaging 2016 – present

Abstract Reviewer

International Society for Magnetic Resonance in Medicine 2017 – present

GRANT SUPPORT

University of Memphis Faculty Research Grant **Role: PI** **07/01/2019 - 06/30/2020**
A 3D Simulation Model of Hepatic Iron Overload and Steatosis for Predicting Tissue Relaxivity by MRI.

Gap Funding, The University of Memphis Sajja **Role: PI** **03/01/2020 - 06/30/2020**
ARMA for Simultaneous and Confounder-Free Quantification of Hepatic Iron Overload and Steatosis by MRI and Validation Against Biopsy.

BOOK CHAPTER

Aaryani Tipirneni-Sajja, Sue C. Kaste, Claudia M. Hillenbrand. Magnetic Resonance Imaging in the Pediatric Patient in Haaga: CT and MRI of the Whole Body Sixth edition.

JOURNAL PUBLICATIONS

Published

PubMed Search: [https://www.ncbi.nlm.nih.gov/pubmed?term=\(\(Aaryani%20Tipirneni%5BAuthor%20-%20Full%5D\)%20OR%20Aaryani%20Tipirneni-Sajja%5BAuthor%20-%20Full%5D\)%20OR%20Aaryani%20Tipirmini%5BAuthor%20-%20Full%5D](https://www.ncbi.nlm.nih.gov/pubmed?term=((Aaryani%20Tipirneni%5BAuthor%20-%20Full%5D)%20OR%20Aaryani%20Tipirneni-Sajja%5BAuthor%20-%20Full%5D)%20OR%20Aaryani%20Tipirmini%5BAuthor%20-%20Full%5D)

1. **Tipirneni-Sajja A**, Loeffler RB, Hankins JS, Morin C, Hillenbrand CM. Quantitative Susceptibility Mapping Using a Multispectral Autoregressive Moving Average Model to Assess Hepatic Iron Overload. *J Magn Reson Imaging*. In press.
2. Shrestha U, van der Merwe M, Kumar N, Jacobs E, Satapathy SK, Morin C, **Tipirneni-Sajja A***. Morphological characterization of hepatic steatosis and MonteCarlo modeling of MRI signal for accurate quantification of fat fraction and relaxivity. *NMR in Biomedicine*. 2021; e4489. <https://doi.org/10.1002/nbm.4489>
3. Johnson H, Puppa M, van der Merwe M, **Tipirneni-Sajja A***. CRAFT for NMR lipidomics: Targeting lipid metabolism in leucine-supplemented tumor-bearing mice. *Magn Reson Chem*. 2020;1–9. <https://doi.org/10.1002/mrc.5092>
4. Puri L, Flanagan JM, Kang G, Ding J, Bi W, McCarville BM, Loeffler RB, **Tipirneni-Sajja A**, Villavicencio M, Crews KR, Hillenbrand CM, Hankins JS. GSTM1 and Liver Iron Content in Children with Sickle Cell Anemia and Iron Overload. *J Clin Med*. 2019 Nov 5;8(11). pii: E1878. doi: 10.3390/jcm8111878.
5. **Tipirneni-Sajja A**, Krafft AJ, Loeffler RB, Song R, Bahrani A, Hankins JS, Hillenbrand CM. Autoregressive Moving Average Modeling for Hepatic Iron Quantification in the Presence of Fat. *J Magn Reson Imaging*. 2019 Nov;50(5):1620-1632. doi: 10.1002/jmri.26682.
6. **Tipirneni-Sajja A**, Loeffler RB, Krafft AJ, Sajewski AN, Ogg RJ, Hankins JS, Hillenbrand CM. Ultrashort Echo Time Imaging for Quantification of Hepatic Iron Overload: Comparison of Acquisition and Fitting Methods via Simulations, Phantoms, and In-vivo Data. *J Magn Reson Imaging*. 2019 May;49(5):1475-1488. doi: 10.1002/jmri.26325.
7. **Tipirneni-Sajja A**, Song R, McCarville MB, Loeffler RB, Hankins JS, Hillenbrand CM. Automated Vessel Exclusion Technique for Quantitative Assessment of Hepatic Iron Overload by R2*-MRI. *J Magn Reson Imaging* 2018 Jun;47(6):1542-1551.
8. **Tipirneni-Sajja A**, Krafft AJ, McCarville MB, Loeffler RB, Song R, Hankins JS, Hillenbrand CM. Radial UTE Imaging Removes the Need for Breath-holding in Hepatic Iron Overload Quantification by R2*-MRI. *American Journal of Roentgenology* 2017 Jul; 209(1):187-194.
9. Krafft AJ, Loeffler RB, Song R, **Tipirneni-Sajja A**, McCarville MB, Robson MD, Hankins JS, Hillenbrand CM. Quantitative Ultrashort Echo Time Imaging for Assessment of Massive Iron Overload at 1.5 and 3 Tesla. *Magn Reson Med* 2017; 78(5):1839-1851.
10. **Tipirneni-Sajja A**, Christensen S, Straka M, Inoue M, Lansberg MG, Mlynash M, Bammer R, Parsons MW, Donnan GA, Davis SM, Albers GW. Prediction of Final Infarct Volume on Subacute MRI by Quantifying Cerebral Edema in Ischemic Stroke. *J Cereb Blood Flow Metab*. 2017; 37(8):3077-3084.
11. **Tipirneni-Sajja A**, Loeffler RB, Oesingmann N, Bissler J, Song R, McCarville B, Jones DP, Hudson M, Spunt SL, Hillenbrand CM. Measurement of glomerular filtration rate by dynamic contrast-

enhanced magnetic resonance imaging using a subject-specific two-compartment model. *Physiol Rep*. 2016 Apr; 4(7).

12. Wheeler HM, Mlynash M, Inoue M, **Tipirneni A**, Liggins J, Bammer R, Lansberg MG, Kemp S, Zaharchuk G, Straka M, Albers GW; DEFUSE 2 Investigators. The growth rate of early DWI lesions is highly variable and associated with penumbral salvage and clinical outcomes following endovascular reperfusion. *Int J Stroke* 2015; 10(5):723-9.
13. Inoue M, Mlynash M, Christensen S, Wheeler HM, Straka M, **Tipirneni A**, Kemp SM, Zaharchuk G, Olivot JM, Bammer R, Lansberg MG, Albers GW; DEFUSE 2 Investigators. Early diffusion-weighted imaging reversal after endovascular reperfusion is typically transient in patients imaged 3 to 6 hours after onset. *Stroke*. 2014 Apr; 45(4):1024-8.
14. Inoue M, Mlynash M, Straka M, Kemp S, Jovin TG, **Tipirneni A**, Hamilton SA, Marks MP, Bammer R, Lansberg MG, Albers GW, et al. Clinical outcomes strongly associated with the degree of reperfusion achieved in target mismatch patients: pooled data from the Diffusion and Perfusion Imaging Evaluation for Understanding Stroke Evolution studies. *Stroke*. 2013 Jul; 44(7):1885-90.
15. Wheeler HM, Mlynash M, Inoue M, **Tipirneni A**, Liggins J, Zaharchuk G, Straka M, Kemp S, Bammer R, Lansberg MG, Albers GW, et al. Early diffusion-weighted imaging and perfusion-weighted imaging lesion volumes forecast final infarct size in DEFUSE 2. *Stroke*. 2013 Mar;44(3):681-5
16. Lansberg MG, Straka M, Kemp S, Mlynash M, Wechsler LR, Jovin TG, Wilder MJ, Lutsep HL, Czartoski TJ, Bernstein RA, Chang CW, Warach S, Fazekas F, Inoue M, **Tipirneni A**, Hamilton SA, Zaharchuk G, Marks MP, Bammer R, Albers GW; for the DEFUSE 2 study investigators. MRI profile and response to endovascular reperfusion after stroke (DEFUSE 2): a prospective cohort study. *Lancet Neurol*. 2012 Oct; 11:860:867
17. Song R, **Tipirneni A**, Loeffler RB, Hillenbrand CM. Evaluation of respiratory liver and kidney movements for MRI navigator gating. *J Magn Reson Imaging* 2011; 33:143–148.

Under Preparation

1. Yunis O, Kazmi S, Wilson T, Gray R, Goodin G, **Tipirneni-Sajja A***. An Anthropomorphic Phantom Architecture for Assessing the Efficacy of Pediatric Head CT Protocols.
2. Rohani SC, Morin C, Kannengiesser S, Holtrop J, Khan A, Loeffler RB, Hillenbrand CM, Hankins JS, **Tipirneni-Sajja A***. Hepatic iron quantification using a Free-breathing 3D Radial Dixon technique and validation with a 2D GRE biopsy calibration.

CONFERENCE PUBLICATIONS

1. Shrestha U, van der Merwe M, Kumar N, Jacobs E, Satapathy SK, Morin C, **Tipirneni-Sajja A***. Stereological Modeling of Hepatic Steatosis and Estimating Independent R2* for Water and Fat using Monte Carlo Simulations. *Proc Intl Soc Mag Reson Med* 2021.
2. Rohani SC, Morin C, Kannengiesser S, Holtrop J, Khan A, Loeffler R, Hillenbrand C, Hankins J, **Tipirneni-Sajja A***. Hepatic iron quantification Using a Free-breathing 3D Radial Dixon Technique and Validation with a 2D GRE Biopsy Calibration. *Proc Intl Soc Mag Reson Med* 2021.
3. Shrestha U, van der Merwe M, Kumar N, **Tipirneni-Sajja A***. Modeling Hepatic Steatosis and Predicting MRI-based Tissue Relaxation Using Monte Carlo Simulations. *Biomedical Engineering Society Meeting* 2020.

4. Yunis O, Kazmi S, Courtney J, **Tipirneni-Sajja A**, Wilson T, Gray R, Goodin G. Effect of Thinner Slice Reconstruction on Detectability of Small, Low-contrast Targets in Heterogeneous Anthropomorphic Pediatric CT Head Phantom. Biomedical Engineering Society Meeting 2020.
5. Johnson H, Puppa M, van der Merwe M, **Tipirneni-Sajja A***. CRAFT for NMR lipidomics: Targeting lipid metabolism in leucine-supplemented tumor-bearing mice. Metabolomics Association of North America 2020.
6. **Tipirneni-Sajja A**, Loeffler RB, Hankins JS, Hillenbrand CM. Quantitative Susceptibility Mapping using a Multi-spectral ARMA Model for Assessment of Hepatic Iron Overload. Proc Intl Soc Mag Reson Med 2020.
7. Loeffler RB, McCarville MB, **Tipirneni-Sajja A**, Hankins JS, Hillenbrand CM. Automated MR HIC Determination using Deep Learning and Frangi Filters. Proc Intl Soc Mag Reson Med 2020.
8. Guyton WC, Jacobs E, **Tipirneni-Sajja A***. Hepatic Iron Modeling Using Monte Carlo Simulations. Proceedings of the National Conferences on Undergraduate Research 2020.
9. Shrestha U, van der Merwe M, Kumar N, **Tipirneni-Sajja A***. Automated Segmentation and Characterization of Lipid Droplets in Hepatic Steatosis. 36th Southern Biomedical Engineering Conference 2020.
10. Johnson H, Pham T, Puppa M, **Tipirneni-Sajja A***. Examining the Lipidomic Effects of Leucine Supplementation in Mice Inoculated with Lewis Lung Carcinoma. Metabolomics Association of North America 2019.
11. Thamizharasan G, Russell A, Beinkampen J, Holtrop J, Williams J, **Tipirneni-Sajja A***. Magnetic Resonance Elastography Phantoms to Mimic Liver Tissue Stiffness and Validation with Uniaxial Compression Test. Biomedical Engineering Society Meeting 2019.
12. **Tipirneni-Sajja A**, Hillenbrand CM. Quantitative Susceptibility Mapping Using ARMA Field Map for Assessment of Hepatic Iron Overload. Biomedical Engineering Society Meeting 2018.
13. **Tipirneni-Sajja A**, Song R, McCarville MB, Loeffler RB, Hankins JS, Hillenbrand CM. Automated Vessel Exclusion on Free-Breathing Ultrashort Echo Time Imaging For Assessment of Hepatic Iron Overload By R2*-MRI. International Pediatric Radiology Conjoint Meeting 2018.
14. **Tipirneni-Sajja A**, Loeffler RB, Sajewski AN, Hankins JS, Hillenbrand CM. Ultra-short Echo Time Imaging for Quantification of Hepatic Iron Overload: Comparison of Current Acquisition and Fitting Methods via Simulations and Phantom Data. Proc Intl Soc Mag Reson Med 2018.
15. **Tipirneni-Sajja A**, Song R, McCarville MB, Loeffler RB, Hankins JS, Hillenbrand CM. Assessment of Hepatic Iron Content by an Automatic Vessel Exclusion Technique in Patients with Iron Overload. Proc Intl Soc Mag Reson Med 2017.
16. **Tipirneni-Sajja A**, Kercher EM, Loeffler RB, Song R, Robson MD, McCarville MB, Hankins JS, Hillenbrand CM. Does T1 Mapping Provide Additional Information in the Context of Hepatic Iron Overload? Proc Intl Soc Mag Reson Med 2017.
17. **Tipirneni-Sajja A**, Krafft AJ, Taylor B, Loeffler RB, Song R, Artz N, Hankins JS, Hillenbrand CM. Simultaneous Iron and Fat Quantification Using an Auto Regressive Moving Average Model at 1.5T and 3T. Proc Intl Soc Mag Reson Med 2017.
18. Puri L, Hankins JS, Hillenbrand CM, Flanagan J, Kang G, Bi W, **Tipirneni-Sajja A**, Villavicencio M, Loeffler RB. Genetic Modifiers of Iron Overload in Sick Cell Disease. The American Society of Pediatric Hematology/Oncology (ASPHO) 2017.

19. **Tipirneni-Sajja A**, McCarville MB, Krafft AJ, Loeffler RB, Song R, Goode C, Fortner G, Hankins JS, Hillenbrand CM. Assessment of Free-breathing R2*-UTE for Hepatic Iron Content Quantification in a Sedated Pediatric Cohort. International Pediatric Radiology Conjoint Meeting 2016.
20. **Tipirneni-Sajja A**, Loeffler RB, Oesingmann N, Duan Y, Winchell AM, Song R, McCarville MB, Hudson M, Spunt SL, Hillenbrand CM. A two-compartment model with automatic time interval selection for estimation of GFR using DCE-MRI in cohort of 28 survivors of unilateral Wilms' tumor. Proc Intl Soc Mag Reson Med 2014.
21. Song R, Loeffler RB, **Tipirneni-Sajja A**, Winchell AM, McCarville MB, Hudson M, Spunt SL, Hillenbrand CM. Renal Perfusion by ASL Is Associated with GFR in Long-Term Survivors of Wilms' Tumor. Proc Intl Soc Mag Reson Med 2014.
22. Brost A, Gupta N, Seeger C, **Tipirneni A**, Han Z, Vos SB, Maclaren JR, Straka M, Fischbein NJ, Bammer R. Automatic Alignment for Tumor Assessment. Proc Intl Soc Mag Reson Med 2013.
23. Inoue M, Wheeler HM, Mlynash M, **Tipirneni A**, Straka M, Kemp SM, Zaharchuk G, Bammer R, Lansberg MG, Albers GW; DEFUSE 2 investigators. Early DWI Reversal Following Endovascular Reperfusion Is Typically Transient. Stroke 2013.
24. Inoue M, Lansberg MG, Mlynash M, Straka M, Kemp SM, **Tipirneni A**, Bammer R, Marks MP, Albers GW. Clinical Outcome Strongly Associated with the Degree of Endovascular Reperfusion Achieved in Target Mismatch. Stroke 2013.
25. Marks MP, Lansberg MG, Mlynash M, Straka M, Kemp SM, Inoue M, **Tipirneni A**, McTaggart R, Zaharchuk G, Bammer R, Albers GW. Correlation of AOL recanalization, TIMI reperfusion and TICI reperfusion with infarct growth and clinical outcome in the DEFUSE 2 Trial. Stroke 2013.
26. Marks MP, Lansberg MG, Mlynash M, Olivot J, Straka M, Kemp S, McTaggart R, Inoue M, **Tipirneni A**, Zaharchuk G, Bammer R, Albers GW. Impact of Collateral Blood Flow on Clinical Presentation, Diffusion and Perfusion Imaging, Infarct Growth and Clinical Outcome in the DEFUSE 2 Trial. Stroke 2013.
27. Wheeler HM, Mlynash M, Inoue M, **Tipirneni A**, Liggins J, Mishra NK, Zaharchuk G, Straka M, Kemp S, Bammer R, Lansberg MG, Albers GW. The Growth Rate of Early DWI Lesions is Highly Variable and Associated with Penumbra Salvage and Clinical Outcomes Following Endovascular Reperfusion. Stroke 2013.
28. **Tipirneni A**, Straka M, Lansberg MG, Mlynash M, Bammer R, Albers GW. A Novel Method for Quantification of Brain Edema in Ischemic Stroke. Stroke 2012.
29. Albers G, Straka M, Kemp S, Mlynash M, Jovin T, Wechsler L, Wilder M, Lutsep H, Keogh B, Bernstein R, Chang C, Warach S, Fazekas F, Thai D, Inoue M, **Tipirneni A**, Hamilton S, Zaharchuk G, Marks M, Bammer R, Lansberg MG. Results of DEFUSE 2: imaging endpoints. Stroke 2012.
30. Mlynash M, Lansberg MG, Straka M, Kemp S, Wechsler LR, Jovin TG, Wilder MJ, Lutsep HL, Czartoski T, Bernstein RA, Chang CW, Warach S, Fazekas F, Thai D, Inoue M, **Tipirneni A**, Hamilton SA, Zaharchuk G, Marks MP, Bammer R, Albers GW. The DEFUSE 2 Investigators. The Malignant MRI profile: Implications for Endovascular Therapy. Stroke 2012.
31. Duan Y, Loeffler RB, Song R, **Tipirneni A**, Spunt S, Oesingmann N, Viano A, Hillenbrand CM. A Robust Method for Reducing Inflow Artifacts in the Arterial Input Function of Dynamic Contrast Enhanced Data Sets. Proc Intl Soc Mag Reson Med 2011.
32. **Tipirneni A**, Song R, Loeffler RB, Hillenbrand CM. Evaluation of the relationship between respiratory hepatic and renal motion using real-time MRI. Proc Intl Soc Mag Reson Med 2009.

MEDIA

Memphis Daily News: www.memphisdailynews.com/news/2017/nov/3/biopsy-breakthrough/

OUTREACH

- **St Jude DI Internship** 2019 –
Initiated and leading an internship program between the Department of Diagnostic Imaging at St. Jude Children's Research Hospital and the Biomedical Engineering Program at the University of Memphis for undergraduate students interested in pursuing biomedical imaging research.
- **West TN STEM Hub** 2020 –
Serving as a steering committee member of West TN STEM Hub for promoting support programs for K-12 Shelby County Schools.
- **STEM Invited Talks**
Delivered STEM talks to students across Shelby County K-12 schools
 - **West TN STEM Hub** Jan-12-2021
Title: 'The Science of Seeing Inside the Body from Outside Using Medical Imaging'
 - **Grahamwood Elementary, 5th Grade** Feb-2021
 - Invited to deliver STEM education to students by the class teacher.
- **SCUDEM V, SIMIODE** 2020 –
SIMIODE Challenge Using Differential Equations Modeling
Served as a judge for scoring and commenting video presentations prepared by high-school and undergraduate students on solving real-world problems using differential equations.
- **TNAchieves** 2021 –
Serving as a mentor for local high school students for guiding through application process and first year of college.
- **Society of Women Engineers** 2021 –
GradSWE mentor for mentoring undergraduate women in engineering by sharing experiences and guiding them professionally to become successful engineers.

ADVISING/MENTORING

Graduate level

- Utsav Shrestha — PhD candidate August 2020 –
 - College Herff Fellowship for PhD
 - Served as Research Advisor for MS thesis
 - First-author manuscript considered for publication with minor changes
 - Presented orally at SBEC 2020 and poster at BMES 2020
- Hayden Johnson — MS & PhD candidate August 2019 –
 - Published 1 first-authored manuscript within a year of joining MS program
 - Presented poster at MANA 2019, 2020.
 - MS anticipated Fall 2021

Undergraduate level

- William Chase Guyton 2019
 - Honors Summer Research Fellowship 2019
 - Selected for Oral Presentation at National Conference on Undergraduate Research 2020
- Gautam Thamizharasan, Alexandra Russell, Jack Beinkampen 2019
 - Mentored Senior Design Project
 - Presented poster at BMES 2019
- Shawyon Chase Rohani 2020 – 2021
 - St. Jude Diagnostic Imaging Internship
 - Accepted at UTHSC for Medical School
 - First-author manuscript under preparation (to be submitted in Feb 2021)
- Omar Yunis, Shehroz Kazmi, James Courtney 2020 – 2021
 - Mentored Senior Design Project
 - Presented poster at BMES 2020
 - First-author manuscript under preparation (to be submitted in Feb 2021)

Graduate Committee Service

- Utsav Shrestha, MS Candidate, Computer Science
 - Quantitative Analysis and Monte Carlo Modeling of Fat-Mediated MRI Relaxation. MS Thesis. August 2020.
- Abdullah Bahour, MS Student, Biomedical Engineering
 - Modeling the Shear Strength of the Pig Proximal Femoral Epiphyseal Plate. MS Project. August 2020.
- Haatef Pourmotabbed, MS Student, Biomedical Engineering
 - Reliability of Graph Measures Derived from Resting-State MEG Data Using Source Space Functional Connectivity Analysis. MS Thesis. October 2020.
- Masumeh Kazemi, PhD Candidate, Biomedical Engineering
 - Experimental and Computational Studies of the Growth Plate Reserve Zone and Chondro-Osseous Junctions. PhD defense Jan 2021.
- Ali Salehi, PhD Student, Electrical & Computer Engineering
 - Learning Motion Estimation. PhD defense planned Summer 2021.