**CURRICULUM VITAE - GRANT ROBERTS**

***PERSONAL DATA***

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Madison, WI 53705-2275

***EDUCATION***

*2019–2023*  **University of Wisconsin – Madison**, Madison, WI

PhD, Medical Physics

Advisor: Oliver Wieben, PhD

Co-advisor: Laura Eisenmenger, MD

*2017–2019*  **University of Wisconsin – Madison**, Madison, WI

MSc, Medical Physics

Advisor: Oliver Wieben, PhD

*2015–2017* **University of Missouri – Kansas City**, Kansas City, MO

BS, Physics, Summa Cum Laude

Advisor: Anthony Caruso, PhD

Co-advisor: Fred Leibsle, PhD

*2010–2014* **University of Missouri – Columbia**,Columbia, MO

BHS, Radiologic Science, Summa Cum Laude

Minor, Spanish

***PROFESSIONAL EXPERIENCE***

*2023–present* **NeoSoft, LLC**, Pewaukee, WI

Data Scientist

Role: Software development for cardiac MRI post-processing

*2017–2023* **University of Wisconsin – Madison**, Madison, WI

Graduate Research Assistant, Cardiovascular MRI Research Group

Focus: Advanced vascular imaging, post-processing, vascular aging

*2016–2017* **University of Missouri – Kansas City**, Kansas City, MO

Undergraduate Research Assistant, Caruso Research Group

Focus: Semiconductor and ferroelectric production and testing

*2015–2016* **Women’s and Children’s Hospital**,Columbia, MO

Radiologic Technologist & CT Technologist

*2014–2015*  **University of Missouri Hospital**,Columbia, MO

Radiologic Technologist

*2013–2014* **University of Missouri Hospital**,Columbia, MO

Radiologic Technologist Intern

***CERTIFICATIONS AND LICENSURE***

*2018–2023* ABR Part 1 Certification

*2014–2017* American Registry of Radiologic Technologists (ARRT) License

*2013–2017* Advanced Cardiac Life Support (ACLS) Certification

*2011–2017* Basic Life Support (BLS) Certification

***AWARDS AND HONORS***

2022  *Magnetic Resonance in Medicine* Cover Image, Volume 67, Issue 5.

*2022* Trainee Stipend; International Society for Magnetic Resonance in Medicine.

*2021* Trainee Stipend; International Society for Magnetic Resonance in Medicine.

*2020* Trainee Stipend; International Society for Magnetic Resonance in Medicine.

*2020* ASNR Certificate of Merit; *Venous Mapping of Vascular Malformations using Cranial 4D Flow MRI*; ASNR 2020; Educational Exhibit.

*2019* RSNA Certificate of Merit; *MR Alphabet Soup: Understanding the Principles of Common Magnetic Resonance Abbreviations*. RSNA 2019; Educational Exhibit

*2019* Research Travel Award; Vilas Student Research Grant Competition.

*2019* ISMRM Magna Cum Laude Merit Award; *Pulsatility and Resistivity Indices in Mesenteric Vasculature in Patients Suspected of Chronic Mesenteric Ischemia using 4D Flow MRI*, ISMRM 2019. Pancreas/GI Poster Session.

*2018* ISMRM Summa Cum Laude Merit Award; *Non-Invasive Assessment of Mesenteric Hemodynamics with 4D flow MRI*, ISMRM 2018. Body: Liver Poster Session.

***INDEPENDENT FUNDING***

*2021–2023* National Institute on Aging F31 Predoctoral Fellowship: “Multi-Parametric Imaging of Systemic Cardiovascular and Cerebrovascular Health in Alzheimer’s Disease”, NIA F31AG071183, $69,653

***PUBLICATIONS***

* Rivera-Rivera, L. A., **Roberts, G. S**., Peret A., Langhough, R., Jonaitis, E. M., Du, L., Field, A., Eisenmenger, L. B., Johnson, S. C., & Johnson, K. M. Unraveling Diurnal and Technical Variability in Cerebral Hemodynamics from Neurovascular 4D-Flow MRI. *Journal of Cerebral Blood Flow and Metabolism*. 10.1177/0271678X241232190.
* Wieben, O., **Roberts, G. S.**, Corrado, P. A., & Johnson, K. M (2023). Four-Dimensional Flow MR Imaging: Technique and Advances. *Magnetic Resonance Imaging Clinics*. 10.1016/j.mric.2023.05.003.
* Huang, A., **Roberts, G. S.**, Reeder, S. B., & Oechtering, T. H. (2023). Reference Values for 4D Flow Magnetic Resonance Imaging of the Portal Venous System. *Abdominal Radiology.* 10.1007/s00261-023-03892-3.
* Carter, K. J., Ward, A. T., Kellawan, J. M., Harrell, J. W., Peltonen, G. L., **Roberts, G. S.**, Al-Subu, A., Hagen, S. A., Serlin, R. C., Eldridge, M., Wieben, O., & Schrage, W. G. (2023). Reduced Resting Macrovascular and Microvascular Cerebral Blood Flow in Young Adults with Metabolic Syndrome: Exploring Mechanisms. *Journal of Applied Physiology.* [10.1113/JP281975](https://doi.org/10.1113/JP281975)
* **Roberts, G. S.**, Peret, A., Koscik, R. L., Jonaitis, E. M., Hoffman, C. A., Rivera-Rivera, L. A., Cody, K. A., Rowley, H. A., Johnson, S. C., Wieben, O., Johnson, K. M., & Eisenmenger, L. B (2023). Normative Cerebral Hemodynamics in Middle-Aged and Older Adults using 4D Flow MRI: Initial Analysis of Vascular Aging. *Radiology*. 10.1148/radiol.222685.
* **Roberts, G. S.\***, Hoffman, C. A.\*, Rivera-Rivera, L. A., Berman, S. E., Eisenmenger, L. B., & Wieben, O. (2023). Automated Hemodynamic Assessment for Cranial 4D Flow MRI. *Magnetic Resonance Imaging*. 10.1016/j.mri.2022.12.016. \*Authors contributed equally to this work.
* Eisenmenger, L. B.\*, Peret, A.\*, **Roberts, G. S.**, Spahic, A., Tang, C., Kuner, A., Grayev, A., Field, A., Rowley, H. A., & Kennedy, T. (2023). When Less is More: FAST MR Protocols for Neuroradiology. *Radiographics.* [doi.org/10.1148/rg.220147](https://doi.org/10.1148/rg.220147). \*Authors contributed equally to this work.
* Eisenmenger, L.B.\*, Peret, A.\*, Famakin, B. M., Spahic, A., **Roberts, G. S.**, Bockholt, H. J., Johnson, K. M., & Paulsen, J. S. (2022). Vascular Contributions to Alzheimer’s Disease. *Translation Research,* 10.1016/j.trsl.2022.12.003.
* Capel, K. W.,**Roberts, G. S.**, Kuner, A. D., Manunga, J., Chang, W., Spahic, A., Peret, A., Wieben, O., Johnson, K. M., & Eisenmenger, L. B. Beyond Time-of-Flight MRA: Review of Flow Imaging Techniques. doi.org/10.3174/ng.2100057
* Oechtering, T. H., **Roberts, G. S.**, Panagiotopoulos, N., Wieben, O., Reeder, S.B., & Roldan-Alzate, A. (2022). Clinical Applications of 4D Flow MRI in the Portal Venous System. *Magnetic Resonance in Medical Sciences.* 10.2463/mrms.rev.2021-0105
* **Roberts, G. S.\***, Loecher, M. W.\*, Spahic, A., Johnson, K. M., Turski, P. A., Eisenmenger, L. B., & Wieben, O. (2022). Virtual Injections Using 4D Flow MRI with Displacement Corrections and Constrained Probabilistic Streamlines. *Magnetic Resonance in Medicine*. 10.1002/mrm.29134. \*Authors contributed equally to this work.
* Oechtering, T. H., **Roberts, G. S.**, Panagiotopoulos, N., Wieben, O., Roldan-Alzate, A., & Reeder, S. B. (2021). Abdominal Applications of Quantitative 4D Flow MRI. *Abdominal Radiology*. 10.1007/s00261-021-03352-w.
* Macdonald, J. A., **Roberts, G. S.**, Corrado, P. A., Beshish, A. G., Barton, G. P., Goss, K. N., Eldridge, M. W., Francois, C. J., & Wieben, O. (2021). Irregular Right Heart Flow Dynamics in Children and Young Adults Born Preterm. *Journal of Cardiovascular Magnetic Resonance*, 10.1186/s12968-021-00816-2.
* **Roberts, G. S.,** François, C. J., Starekova, J., Roldán-Alzate, A., & Wieben, O. (2021). Non-invasive assessment of mesenteric hemodynamics in patients with suspected chronic mesenteric ischemia using 4D flow MRI. *Abdominal Radiology (New York)*, 10.1007/s00261-020-02900-0.

***PUBLICATIONS IN PREPARATION***

* Spahic, A., **Roberts, G. S.**, Peret, A., Rivera-Rivera, L. A., Moody, J. F., Dean III, D. C., Alexander, A. L., Johnson, K. M., Johnson, S. C., Wieben, O., & Eisenmenger, L. B.Assessment of Cerebrovascular Disease and White Matter Neurite Density in Alzheimer’s Disease. *To Submit to Journal of Alzheimer’s Disease.*
* Peret, A., Spahic, A., **Roberts, G. S.**, Hoffman, C. A., Koscik, R. L., Jonaitis, E. M., Rivera-Rivera, L. A., Cody, K. A., Rowley, H. A., Johnson, S. C., Wieben, O., Johnson, K. M., & Eisenmenger, L. B. 4D Flow Magnetic Resonance Imaging for the Study of Normal Cerebrovascular Aging in a Large Cohort of Cognitively Normal Older Adults. *To Submit to JAMA Neurology*.
* Jolicoeur, B. W., Yardim, Z., **Roberts, G. S.**, Rivera-Rivera, L. A., Eisenmenger, L. B.,& Johnson, K. M. Quantifying Physiological Variability and Enhancing Reproducibility in 4D-Flow MRI Cerebrovascular Measurements with Self-Supervised Deep Learning. *To Submit to Magnetic Resonance in Medicine.*

***CONFERENCE ABSTRACTS***

* Spahic, A., **Roberts, G. S.**, Peret, A., Rivera-Rivera, L. A., Dean, D., Johnson, K. M., Eisenmenger, L. B., & Wieben, O. Cerebrovascular Flow and White Matter Microstructural Integrity in the Presence of Amyloid and Tau Biomarkers. 2024 ISMRM and ISMRT Annual Meeting and Exhibition; 2024 May 4; Singapore.
* Naren, T., **Roberts, G. S.**, Johnson, K. M., Breidenbach, B., Jarchow, M. Lose, S., Pandos, A., Okonkwo, O., & Wieben, O. Feasibility of a 2D Radial Simultaneous Multi-Slice Phase Contrast MRI Sequence for Aortic Pulse Wave Velocity Measurements. 2024 ISMRM and ISMRT Annual Meeting and Exhibition; 2024 May 4; Singapore.
* Naren, T., **Roberts, G. S.**, Breidenbach, B., Bernhardt, Z. S., Fondakowski, J., Jarchow, M. Lose, S., Pandos, A., Johnson, K. M., Okonkwo, O., & Wieben, O. Comparing the Robustness of Respiratory-resolved Aortic Pulse Wave Velocity Calculation Methods in 2D Phase Contrast MRI. 10.1016/j.jocmr.2024.100601.
* Naren, T., **Roberts, G. S.**, Breidenbach, B., Bernhardt, Z. S., Fondakowski, J., Jarchow, M. Lose, S., Pandos, A., Johnson, K. M., Okonkwo, O., & Wieben, O. Quantifying Differences in Aortic Pulse Wave Velocity Across the Respiratory Cycle with Retrospectively Gated Radial 2D Phase Contrast MRI. Society for Magnetic Resonance in Angiogram (SMRA) 35th Annual Conference; 2023 October 17; Sendai, Japan.
* Huang, A. P., **Roberts, G. S.,** Roldan-Alzate, A., Wieben, O., Reeder, S. B., & Oechtering, T. 4D Flow MRI Reference Values of the Portal Venous System. 2023 ISMRM and ISMRT Annual Meeting & Exhibition; 2023 June 3; Toronto, ON, Canada.
* Spahic, A., **Roberts, G. S.**, Peret, A., Koscik, R. L., Jonaitis, E. M., Hoffman, C. A., Rivera-Rivera, L. A., Cody, K. A., Rowley, H. A., Johnson, S. C., Wieben, O., Johnson, K. M., & Eisenmenger, L. B. Sex Differences Between Total Cerebral Blood Flow and Age-Related Changes in the Brain Using 4D Flow MRI. 2023 ISMRM and ISMRT Annual Meeting & Exhibition; 2023 June 3; Toronto, ON, Canada.
* Rivera-Rivera, L. A., **Roberts, G. S.**, Peret, A., Johnson, S. C., Wieben, O., Eisenmenger, L. B., & Johnson, K. M. Diurnal Changes in Cerebrovascular Dynamics Measured from 4D-Flow. 2023 ISMRM and ISMRT Annual Meeting & Exhibition; 2023 June 3; Toronto, ON, Canada.
* Jolicoeur, B. W., Rivera-Rivera, L. A., **Roberts, G. S.**, Eisenmenger, L. B., & Johnson, K. M. Denoising 4D-Flow using Self-Supervised Deep Learning and Its Effect on Test-Retest Reproducibility. 2023 ISMRM and ISMRT Annual Meeting & Exhibition; 2023 June 3; Toronto, ON, Canada.
* Jen, M., Nishant, V., Cheng, K. P., **Roberts, G. S.**, Laluzerne, M., Frank, J., Williams, J., Ludwig, K., & Johnson, K. M. Evaluation of Relationship Between Trigeminal Nerve Stimulation and Hemodynamics using 4D-Flow MRI: A Pilot Study in Swine Model. 2023 ISMRM and ISMRT Annual Meeting & Exhibition; 2023 June 3; Toronto, ON, Canada.
* Rivera-Rivera, L. A., **Roberts, G. S.**, Peret, A., Johnson, S. C., Wieben, O., Eisenmenger, L. B., & Johnson, K. M. Diurnal Changes in Cerebrovascular Dynamics Measured from 4D-Flow. ISMRM Workshop on Neurofluids: Anatomy, Physiology & Imaging. 2022 September 21.
* Peret, A., **Roberts, G. S.**, Hoffman, C. A., Rivera-Rivera, L. A., Cody, K. A., Rowley, H. A., Wieben, O., Johnson, S. C., Johnson, K. M., & Eisenmenger, L. B. 4D Flow MRI for the Study of Cerebrovascular Aging in a Large Cohort of Cognitively Normal Older Adults. ISMRM Workshop on Neurofluids: Anatomy, Physiology & Imaging. 2022 September 21.
* Peret, A., **Roberts, G. S.**, Hoffman, C. A., Rivera-Rivera, L. A., Cody, K. A., Rowley, H. A., Wieben, O., Johnson, S. C., Johnson, K. M., & Eisenmenger, L. B. 4D Flow Magnetic Resonance Imaging for the Study of Normal Cerebrovascular Aging in a Large Cohort of Cognitively Normal Older Adults. American Society of Functional Neuroradiology 15th Annual Meeting. 2022 August 27.
* **Roberts, G. S.**, Peret, A., Rivera-Rivera, L. A., Cody, K. A., Rowley, H. A., Wieben, O., Johnson, S. C., Johnson, K. M., & Eisenmenger, L. B. Defining Normative Cerebral Hemodynamics in Cognitively Healthy Older Adults with 4D Flow MRI. Joint Annual Meeting ISMRM-ESMRMB & SMRT 31st Annual Meeting. 2022 May 7.
* **Roberts, G. S.**, Bernhardt, Z. S., Lose, S., Pandos, A., Johnson, K. M., Eisenmenger, L. B., Okonkwo, O., & Wieben, O. Effects of Respiration on Aortic Pulse Wave Velocity using Retrospective Respiratory Gated Radial 2D Phase Contrast MRI. Joint Annual Meeting ISMRM-ESMRMB & SMRT 31st Annual Meeting. 2022 May 7.
* Naren, T., **Roberts, G. S.**, & Wieben, O. Effect of Temporal Resolution on Flow-Area Aortic Pulse Wave Velocity Measures Using Phase Contrast and Balanced SSFP MRI: A Preliminary Study. Joint Annual Meeting ISMRM-ESMRMB & SMRT 31st Annual Meeting. 2022 May 7.
* Spahic, A., **Roberts, G. S.**, Wolfson, T., Harris, D., Panagiotopoulos, N., Roldan-Alzate, A., Johnson, K. M., Wieben, O., Sirlin, C. B., Reeder, S. B., & Oechtering, T. H. Portal Venous 4D Flow MRI in Obese Patients Without Known Liver Disease Undergoing Weight Loss Surgery. Joint Annual Meeting ISMRM-ESMRMB & SMRT 31st Annual Meeting. 2022 May 7.
* Spahic, A., Oechtering, T. H., **Roberts, G. S.**, Roldan-Alzate, A., Reeder, S. B., Wieben, O., & Johnson, K. M. Abdominal 4D Flow MRI in Obese Patients – A Pilot Study. Society for Magnetic Resonance Angiography (SMRA) 33rd Annual International Conference. 2021 September.
* Peret, A., Kuner, A. S., Yu, J., **Roberts, G. S.**, Jen, M., Johnson, K. M., & Eisenmenger, L. B. Relationship Between Alzheimer's Disease and Neurovascular Dysfunction. ASNR 59th Annual Meeting; 2021 May 22.
* Peret, A., Kuner, A., Yu, J., Chang, W., **Roberts, G. S.**, Jen, M., Strother, C. M., Johnson, K. M., & Eisenmenger, L. B. Brain Metabolite Clearance: Glymphatic System and IPAD Pathway Hypothesis. ASNR 59th Annual Meeting of the American Society of Neuroradiology; 2021 May 22.
* Capel, K. W., **Roberts, G. S.**, Kuner, A., Manunga, J., Wieben, O., Johnson, K. M., & Eisenmenger, L. B. Beyond 4D MRA: Review of Flow Imaging Techniques. ASNR 59th Annual Meeting of the American Society of Neuroradiology; 2021 May 22.
* **Roberts, G. S.**, Rivera-Rivera, L. A., Johnson, K. M., Johnson, S. C., Dean III, D. C., Alexander, A. L., Wieben, O., & Eisenmenger, L. B. Assessment of Cerebrovascular Disease and White Matter Neurite Density in Alzheimer’s Disease. 2021 ISMRM & SMRT Annual Meeting & Exhibition; 2021 May 15; Vancouver, BC, Canada.
* **Roberts, G. S.**, Johnson, K. M., Rivera-Rivera, L. A., Kecskemeti, S. R., Okonkwo, O. C., Eisenmenger, L. B., & Wieben, O. Free-Breathing Radial 2D Phase Contrast MRI for Aortic Pulse Wave Velocity Measurements in Healthy Older Adults. Society for Magnetic Resonance Angiography (SMRA) 32nd Annual International Conference; 2020 September 18.
* Eisenmenger, L. B., **Roberts, G. S.**, Loecher, M. W., Rivera-Rivera, L. A., Turski, P. A., Johnson, K. M., & Wieben, O. Venous Mapping of Vascular Malformations using Cranial 4D Flow MRI with Improved ‘Virtual Injections’. 2020 ISMRM & SMRT Virtual Conference & Exhibition; 2020 August 08.
* **Roberts, G. S.**, Johnson, K. M., Kecskemeti, S. R., Okonkwo, O., Lose, S., Eisenmenger, L. B., & Wieben, O. Feasibility of a Free-Breathing 2D Phase Contrast MRI for Aortic Pulse Wave Velocity Measurements. 2020 ISMRM & SMRT Virtual Conference & Exhibition; 2020 August 08.
* Eisenmenger, L. B., **Roberts, G. S.**, Loecher, M. W., Rivera-Rivera, L. A., Turski, P. A., Johnson, K. M., & Wieben, O. 4D flow MRI Characterization of High-Risk Dural Arteriovenous Fistula Features. ASNR 58th Annual Meeting of the American Society of Neuroradiology; 2020 May 30; Las Vegas, NV, USA.
* **Roberts, G. S.**, Loecher, M. W., Rivera-Rivera, L. A., Turski, P. A., Johnson, K. M., Wieben, O., & Eisenmenger, L. B. Venous Mapping of Vascular Malformations using Cranial 4D Flow MRI. ASNR 58th Annual Meeting of the American Society of Neuroradiology; 2020 May 30; Las Vegas, NV, USA.
* Rivera-Rivera, L. A., **Roberts, G. S.**, Eisenmenger, L. B., Wieben, O., Johnson, S. C., & Johnson, K. M. Association of Brain Biomechanics and Vascular Dynamics using 4D Flow, MRE and DENSE MRI. ISMRM 28th Annual Meeting & Exhibition; 2020 April 18; Sydney, Australia.
* Hoffman, C. A., **Roberts, G. S.**, Berman, S., Eisenmenger, L. B., & Wieben, O. Automated Cranial 4D Flow MRI Analysis. Alzheimer's Disease and Related Disorders Research Day 2020; 2020 March 5; Madison, WI, USA.
* Hoffman, C. A., **Roberts, G. S.**, Meram, E., Medero, R., Eisenmenger, L. B., Laeseke, P. F., Korosec, F. R., & Wieben, O. MR Alphabet Soup: Understanding the Principles of Common Magnetic Resonance Abbreviations. RSNA 2019; 2019 December 1; Chicago, IL, USA.
* **Roberts, G. S.**, Johnson, K. M., Hoffman, C. A., Eisenmenger, L. B., & Wieben, O. Automating Background Phase Correction in Cranial 4D Flow MRI. Society for Magnetic Resonance Angiography (SMRA) 31st Annual International Conference; 2019 August 27; Nantes, France.
* Hoffman, C. A., **Roberts, G. S.**, Berman, S., Eisenmenger, L. B., & Wieben, O. Towards Automated Cranial 4D Flow Cranial Analysis. Society for Magnetic Resonance Angiography (SMRA) 31st Annual International Conference; 2019 August 27; Nantes, France.
* **Roberts, G. S.**, Francois, C. J., Roldan-Alzate, A., & Wieben, O. Pre and Postprandial Hemodynamics of the Gastroduodenal Artery in Patients Suspected of Chronic Mesenteric Ischemia using 4D Flow MRI. ISMRM 27th Annual Meeting & Exhibition; 2019 May 11; Montreal, QC, Canada.
* **Roberts, G. S.**, Francois, C. J., Roldan-Alzate, A., & Wieben, O. Pulsatility and Resistivity Indices in Mesenteric Vasculature in Patients Suspected of Chronic Mesenteric Ischemia using 4D Flow MRI. ISMRM 27th Annual Meeting & Exhibition; 2019 May 11; Montreal, QC, Canada.
* MacDonald, J. M., **Roberts, G. S.**, & Wieben, O. ECG Characterization and Correction during Exercise Stress Imaging. Joint Annual Meeting ISMRM-ESMRMB; 2018 June 16; Paris, France.s
* **Roberts, G. S.**, Roldan-Alzate, A., Francois, C. J., & Wieben, O. Non-Invasive Assessment of Mesenteric Hemodynamics with 4D Flow MRI. Joint Annual Meeting ISMRM-ESMRMB; 2018 June 16; Paris, France.

***INVITED PRESENTATIONS AND PANEL DISCUSSIONS***

* “Cranial Hemodynamics Assessed with MRI: An Introduction with Relevance to AD – Part I”. Panelist, Wisconsin Alzheimer’s Disease Research Center: Neuroimaging Core Seminar Series. University of Wisconsin – Madison, Madison, WI, USA. June 15, 2020.
* “Cranial Hemodynamics Assessed with MRI: An Introduction with Relevance to AD – Part II”. Panelist, Wisconsin Alzheimer’s Disease Research Center: Neuroimaging Core Seminar Series. University of Wisconsin – Madison, Madison, WI, USA. July 21, 2020.
* “Flow Imaging Scientific Session 5”. Moderator, Society for Magnetic Resonance Angiography 2021 Annual Conference. Virtual Conference. September 12, 2021.

***PEER REVIEW***

* *Quantitative Imaging in Medicine and Surgery(2), NeuroImage(1)*

***PROFESSIONAL SOCIETY MEMBERSHIPS***

* International Society for Magnetic Resonance in Medicine (ISMRM)
* Society for Magnetic Resonance Angiography (SMRA)
* American Heart Association (AHA)
* Alzheimer’s Association International Society to Advance Alzheimer’s Research and Treatment (ISTAART)

***MENTORSHIP***

I served as a secondary research mentor after Dr. Oliver Wieben and Dr. Laura Eisenmenger for the following students:

* Zachary Bernhardt – Undergraduate Student in Biology (Okonkwo Lab)
* Jennifer Fondakowski – Undergraduate Student in Biology (Okonkwo Lab)
* Mackenzie Jarchow - Undergraduate Student in Neurobiology (Okonkwo Lab)
* Tarun Naren – Graduate student in Medical Physics
* Alma Spahic – Graduate student in Medical Physics
* Daniel Seiter – Graduate student in Medical Physics