

## Curriculum Vitae

### **ANDREW L. WENTLAND, MD, PhD**

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University of Wisconsin School of Medicine & Public Health  
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## **Education & Training**

- 2020 – 2021      **Fellow, Abdominal Imaging & Intervention, Department of Radiology**  
University of Wisconsin School of Medicine & Public Health  
Program Director: J. Louis Hinshaw, MD
- 2016 – 2020      **Resident, Department of Radiology**  
Stanford University School of Medicine  
Program Director: Payam Massaband, MD
- 2015 – 2016      **Intern, Department of Surgery**  
University of Wisconsin School of Medicine & Public Health  
Program Director: Eugene Foley, MD
- 2007 – 2015      **Doctor of Medicine (MD)**  
University of Wisconsin School of Medicine & Public Health
- 2009 – 2013      **Doctor of Philosophy (PhD) in Medical Physics**  
University of Wisconsin School of Medicine & Public Health  
Dissertation: “Flow in Radially Acquired Magnetic Resonance Imaging: Methods and Applications in Atherosclerotic Disease”  
Advisors: Oliver Wieben, PhD & Thomas Grist, MD  
Committee Members: Charles Mistretta, PhD (chair), Frank Korosec, PhD, Tomy Varghese, PhD, Deane Mosher, MD
- 2009 – 2011      **Master of Science (MS) in Medical Physics**  
University of Wisconsin School of Medicine & Public Health  
Advisors: Oliver Wieben, PhD & Thomas Grist, MD
- 2001 – 2006      **Bachelor of Science (BS) in Biomedical Engineering**  
*Graduated with Distinction & Honors in Research*  
University of Wisconsin – Madison

## Medical Licensure / Certifications

2015 – Present	CPR and Basic Life Support (BLS) for the Healthcare Provider
2015 – Present	Advanced Cardiovascular Life Support (ACLS)
2016 – Present	DEA License
2016 – Present	State of California Medical License (License #A144293)
2020 – Present	State of Wisconsin Medical License (License #73132-20)

## Professional Experience & Faculty Appointments

07/21 – Present	<b>Assistant Professor</b> , Department of Biomedical Engineering, University of Wisconsin School of Medicine & Public Health, Madison, WI, USA
07/21 – Present	<b>Assistant Professor</b> , Department of Medical Physics, University of Wisconsin School of Medicine & Public Health, Madison, WI, USA
07/21 – Present	<b>Assistant Professor</b> , Department of Radiology, University of Wisconsin School of Medicine & Public Health, Madison, WI, USA
07/20-06/21	<b>Fellow</b> , Department of Radiology, University of Wisconsin School of Medicine & Public Health, Madison, WI, USA
07/16-06/20	<b>Resident</b> , Department of Radiology, Stanford University School of Medicine, Stanford, CA, USA
06/15-06/16	<b>Intern</b> , Department of Surgery, University of Wisconsin School of Medicine & Public Health, Madison, WI, USA
12/12-01/13	<b>Visiting Researcher</b> , Department of Radiology, Stanford University School of Medicine, Stanford, CA, USA
08/07-05/15	<b>Fellow, Medical Scientist Training (MD/PhD) Program</b> , University of Wisconsin School of Medicine & Public Health, Madison, WI, USA
07/06-08/07	<b>Research Specialist</b> , University of Wisconsin School of Medicine & Public Health, Departments of Radiology & Medical Physics, Madison, WI, USA
05/03-06/06	<b>Undergraduate Research Assistant</b> , University of Wisconsin School of Medicine & Public Health, Departments of Radiology & Medical Physics, Madison, WI, USA
05/04-08/04	<b>Magnetic Resonance Visualization Engineer</b> , GE Healthcare, Magnetic Resonance Division, Waukesha, WI, USA

## Peer-Reviewed Journal Papers

- 1) Fain SB, Panth SR, Evans MD, **Wentland AL**, Holmes JH, Korosec FR, O'Brien M, Fountaine H, Grist TM. Early Emphysematous Changes in Asymptomatic Smokers: Detection with  $^3\text{He}$  MR Imaging. *Radiology*. 239(3):875-883, 2006. Policy Exempt: Publication Prior to 04/07/08
- 2) **Wentland AL**, Korosec FR, Vigen KK, Wieben O, Fine JP, Grist TM. Cine Flow Measurements using Phase Contrast with Undersampled Projections: *in vitro* Validation and Preliminary Results *in vivo*. *Journal of Magnetic Resonance Imaging*. 24(4):945-951, 2006. Policy Exempt: Publication Prior to 04/07/08
- 3) Sadowski EA, Bennett L, Chan MR, **Wentland AL**, Garrett AL, Garrett RW, Djamali A. Nephrogenic Systemic Fibrosis: Risk Factors and Incidence Estimation in a Case Series of 13 Patients. *Radiology*. 243(1):140-147, 2007. Policy Exempt: Publication Prior to 04/07/08
- 4) **Wentland AL**, Sadowski EA, Djamali A, Grist TM, Becker BN, Fain SB. Quantitative MR Measures of Intrarenal Perfusion in the Assessment of Transplanted Kidneys: Initial Experience. *Academic Radiology*. 16(9):1077-85, 2009. PMID: PMC2749559
- 5) Sadowski EA, Djamali A, **Wentland AL**, Muehrer R, Becker BN, Grist TM, Fain SB. BOLD and Perfusion MRI: Detecting Differences in Oxygen Bioavailability and Blood Flow in Transplanted Kidneys. *Magnetic Resonance Imaging*. 28(1):56-64, 2010. PMID: PMC2891158
- 6) **Wentland AL**, Rowley HA, Vigen KK, Field AS. Fetal Origin of the Posterior Cerebral Artery Produces Left-Right Asymmetry on Perfusion Imaging. *American Journal of Neuroradiology*. 31(3):448-53, 2010. PMID: PMC2933401
- 7) **Wentland AL**, Wieben O, Korosec FR, Haughton VM. Accuracy and Reproducibility of Phase Contrast MR Measurements for CSF Flow. *American Journal of Neuroradiology*. 31(7):1331-6, 2010. PMID: PMC3818526
- 8) Artz NS, Sadowski EA, **Wentland AL**, Grist TM, Seo S, Djamali A, Fain SB. Arterial Spin Labeling MRI for Assessment of Perfusion in Native and Transplanted Kidneys. *Magnetic Resonance Imaging*. 29(1):74-82, 2011. PMID: PMC3005910
- 9) Bieging ET, Frydrychowicz A, **Wentland AL**, Landgraf BR, Johnson KM, Wieben O, François CJ. In vivo 3-Dimensional Magnetic Resonance Wall Shear Stress Estimation in Ascending Aortic Dilatation. *Journal of Magnetic Resonance Imaging*. 33(3):589-97, 2011. PMID: PMC3078726
- 10) Artz NS, **Wentland AL**, Sadowski EA, Djamali A, Grist TM, Seo S, Fain SB. Comparing Kidney Perfusion using Non-Contrast Arterial Spin Labeling MRI and Microsphere Methods in an Interventional Swine Model. *Investigative Radiology*. 46(2):124-31, 2011. PMID: PMC3368348
- 11) Artz NS, Sadowski EA, **Wentland AL**, Djamali A, Grist TM, Seo S, Fain SB. Reproducibility of Renal Perfusion MR Imaging in Native and Transplanted Kidneys using Non-Contrast Arterial Spin Labeling. *Journal of Magnetic Resonance Imaging*. 33(6):1414-21, 2011. PMID: PMC3098463

- 12) **Wentland AL**, Artz NS, Fain SB, Grist TM, Djamali A, Sadowski EA. MR Measures of Renal Perfusion, Oxygen Bioavailability, and Total Renal Blood Flow in a Porcine Model. *Nephrology Dialysis Transplantation*. 27(1):128-35, 2012. PMID: PMC3350337
- 13) **Wentland AL**, Wieben O, François CJ, Boncyk C, Munoz Del Rio A, Johnson KM, Grist TM, Frydrychowicz A. Aortic Pulse Wave Velocity Measurements with Undersampled 4D Flow-Sensitive MRI: Comparison to 2D and Algorithm Determination. *Journal of Magnetic Resonance Imaging*. 37(4):853-9, 2013. PMID: PMC3566322
- 14) Kramer JH, Arnoldi E, François CJ, **Wentland AL**, Nikolaou K, Wintersperger BJ, Grist TM. Dynamic and Static Magnetic Resonance Angiography of the Supra-aortic Vessels at 3.0 T: Intraindividual Comparison of Gadobutrol, Gadobenate Dimeglumine, and Gadoterate Meglumine at Equimolar Dose. *Investigative Radiology*. 48(3): 121-8, 2013. PMID: PMC3818529
- 15) **Wentland AL**, Grist TM, Wieben O. Repeatability and Internal Consistency of Abdominal 2D and 4D Phase Contrast MR Flow Measurements. *Academic Radiology*. 20(6): 699-704, 2013. PMID: PMC3897393
- 16) **Wentland AL**, Grist TM, Wieben O. Review of MRI-Based Measurements of Pulse Wave Velocity: A Biomarker of Arterial Stiffness. *Cardiovascular Diagnosis and Therapy*. 4(2): 193-206, 2014. PMID: PMC3996237
- 17) Bell LC, Johnson KM, Fain SB, **Wentland A**, Drees R, Johnson RA, Bauman G, François CJ, Nagle SK. Simultaneous MRI of Lung Structure and Perfusion in a Single Breath-Hold. *Journal of Magnetic Resonance Imaging*. 41(1): 52-9, 2015. PMID: PMC4065224
- 18) **Wentland AL**, Wieben O, Shanmuganayagam D, Krueger CG, Meudt JJ, Consigny D, Rivera L, McBride PE, Reed JD, Grist TM. Measurements of Wall Shear Stress and Aortic Pulse Wave Velocity in Swine with Familial Hypercholesterolemia. *Journal of Magnetic Resonance Imaging*. 41(5): 1475-85, 2015. PMID: PMC4276731
- 19) **Wentland AL**, McWalter EJ, Pal S, Delp SL, Gold GE. Muscle Velocity and Inertial Force from Phase Contrast Magnetic Resonance Imaging. *Journal of Magnetic Resonance Imaging*. 42(2): 526-32, 2015. PMID: PMC4442766
- 20) Bruce R, **Wentland AL**, Haemel AK, Garrett RW, Sadowski DR, Djamali A, Sadowski EA. Incidence of Nephrogenic Systemic Fibrosis using Gadobenate Dimeglumine in 1423 Patients with Renal Insufficiency Compared with Gadodiamide. *Investigative Radiology*. 51(11): 701-5, 2016.
- 21) Phillips AW, Baird JH, **Wentland AL**, Yang RL, Massoud TF. The Hemorrhage That Wasn't: Polycythemia Presenting as Pseudointracranial Hemorrhage in Pedestrian versus Automobile Trauma Alert. *Journal of Emergency Medicine Case Reports*. 9(2):26-9, 2018.
- 22) Jeffrey RB, **Wentland AL**, Olcott EW. Sonography of the Cecum: Gateway to the Right Lower Quadrant. *Ultrasound Quarterly*. 34(3): 133-40, 2018.
- 23) **Wentland AL**, Desser T, Troxell M, Kamaya A. Bladder Cancer and Its Mimics: A Sonographic Pictorial Review with CT/MR and Histologic Correlation. *Abdominal Radiology*. 44(12): 3827-42, 2019.

- 24) **Wentland AL**. Editorial for “Renin Angiotensin System Inhibitors Reduce Aortic Stiffness and Flow Reversal After a Cryptogenic Stroke.” *Journal of Magnetic Resonance Imaging*. 53(1): 222, 2021.
- 25) **Wentland AL**. Editorial for “Reproducibility of Aortic Segmentation on 4D Flow MRI in Healthy Volunteers. *Journal of Magnetic Resonance Imaging*. 53(4): 1280-1281, 2021.
- 26) De Boer An Villa G, Bane O, Bock M, Cox EF, Dekkers IA, Eckerbom P, Fernandez-Seara MA, Francis ST, Haddock B, Hall ME, Barrientos PH, Hermann I, Hockings PD, Lamb HJ, Laustsen C, Lim RP, Morris DM, Ringgaard S, Serai SD, Sharma K, Sourbron S, Takehara Y, **Wentland AL**, Wolf M, Zollner FG, Nery F, Caroli A. Consensus-Based Technical Recommendations for Clinical Translation of Renal Phase Contrast MRI. *Journal of Magnetic Resonance Imaging*. Epub ahead of print.
- 27) Zambrano Chaves JM, Chaudhari AS, **Wentland AL**, Desai AD, Banerjee I, Maron D, Rodriguez F, Sandhu AS, Jeffrey RB, Rubin D, Patel B. Opportunistic Assessment of Ischemic Heart Disease Risk Using Abdominopelvic Computed Tomography and Medical Record Data: A Multimodal Explainable Artificial Intelligence Approach. *Nature Medicine*. Submitted.
- 28) Yamashita R, Bird K, Cheung PY, Decker JH, Flory MN, Goff D, Morimoto LN, Shon A, **Wentland AL**, Rubin DL, Desser TS. Automated Identification and Measurement Extraction of Pancreatic Cystic Lesions from Free-Text Radiology Reports Using Natural Language Processing. *Radiology: Artificial Intelligence*. Submitted.
- 29) **Wentland AL**, Nystrom J, Lubner MG, Mao L, Abel EJ, Pickhardt, PJ. Natural History of Simple Renal Cysts: Longitudinal CT-Based Evaluation. *Urology*. Submitted.
- 30) Corrado PA, **Wentland AL**, Starekova J, Dhyani A, Goss KN, Wieben O. Fully Automated 4D Flow MRI Post-Processing with Intramodality Image Registration and Deep Learning for Biventricular Segmentation. *Journal of Cardiovascular Magnetic Resonance*. Submitted.
- 31) Yamashita R, Kapoor T, Alam MN, Galimzianova A, Syed SA, Akdogan MU, Alkim E, **Wentland AL**, Madhuripan N, Goff D, Villescás V, Sheybani ND, Rubin DL, Desser TS. Toward Reduction in False-Positive Thyroid Nodule Biopsies with a Deep Learning-Based Risk Stratification System Using Ultrasound Cine Clip Images. *Radiology: Artificial Intelligence*. Submitted.
- 32) **Wentland AL**, Yamashita R, Kamaya A. Differentiation of Benign from Malignant Pathology-Proven Solid Renal Lesions Using Radiomics and Machine Learning. *Abdominal Radiology*. Submitted.

## Conference Papers

- 1) **Wentland AL**, Frydrychowicz A, Johnson KM, François CK, Grist TM, Wieben O. Estimation of Pulse Wave Velocity Derived from 2D and 4D Flow-Sensitive Magnetic Resonance Imaging. *Proceedings of the 2<sup>nd</sup> International Conference on Computational & Mathematical Biomedical Engineering*, Washington D.C., USA, March 30 – April 1, 2011, p.447-450.

## Abstracts/Conference Proceedings

- 1) **Wentland AL**, Korosec FR, Vigen KK, Grist TM. Fast PC Flow Measurements Using Undersampled PR: in vitro Validation and Preliminary Results in vivo. *Proceedings of the 13<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Miami Beach, FL, USA, May 7-13, 2005, 1736. (poster presentation)
- 2) Wu Y, Fain SB, Korosec FR, Vigen KK, Gu T, **Wentland AL**, Haughton VM. Optimizing Phase Contrast MR for CSF Flow Analyses in Chiari Malformation. *Proceedings of the 13<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Miami Beach, FL, USA, May 7-13, 2005, 68. (oral presentation)
- 3) Panth SR, Grist TM, Korosec FR, Evans MD, **Wentland AL**, Fountaine H, Fain SB. Early Detection of Emphysematous Changes in Smokers using Hyperpolarized <sup>3</sup>He MRI. *Proceedings of the 13<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Miami Beach, FL, USA, May 7-13, 2005, 1827. (poster presentation)
- 4) Fain SB, Panth SR, **Wentland AL**, Evans MD, Holmes JH, Korosec FR, Fountaine H, Grist TM. He-3 MRI Detects Early Emphysematous Changes in Asymptomatic Smokers. *Proceedings of the 100<sup>th</sup> Annual Meeting of the American Thoracic Society*, San Diego, CA, USA, May 20-25, 2005, 652. (oral presentation)
- 5) Wu Y, **Wentland AL**, Fain SB, Korosec FR, Vigen KK, Haughton VM. Optimizing Phase Contrast MR for CSF Flow Analyses. *Proceedings of the 43<sup>rd</sup> Scientific Meeting of the American Society of Neuroradiology*, Toronto, Canada, May 21-27, 2005, 481. (oral presentation)
- 6) **Wentland AL**, Iskandar B, Korosec FR, Haughton VM. Using Phase Contrast MR, Accelerated with Radial Acquisitions, to Study the Effects of Physical and Physiologic Maneuvers on CSF Flow in Chiari I Malformation. *Proceedings of the 91<sup>st</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 27-December 2, 2005, SSK14-09. (oral presentation)
- 7) **Wentland AL**, Wieben O, Mistretta CA, Korosec FR, Haughton VM. A Technique for Acquiring MR Images of CSF Flow during a Breath Hold. *Proceedings of the 44<sup>th</sup> Scientific Meeting of the American Society of Neuroradiology*, San Diego, CA, USA, April 29-May 5, 2006, O-132. (oral presentation)
- 8) **Wentland AL**, Korosec FR, Wieben O, Vigen KK, Grist TM. Fast PC Flow Measurements using Undersampled Projection Reconstruction: Preliminary Results in a Swine Model. *Proceedings of the 14<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Seattle, WA, USA, May 6-12, 2006, 873. (oral presentation)
- 9) **Wentland AL**, Wieben O, Mistretta CA, Korosec FR, Haughton VM. Technique for Acquiring MR Images of CSF Flow during a Valsalva Maneuver. *Proceedings of the 14<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Seattle, WA, USA, May 6-12, 2006, 1525. (poster presentation)
- 10) **Wentland AL**, Korosec FR, Wieben O, Grist TM. Renal Artery Flow Measurements using a 2D Phase Contrast MR Acquisition with Undersampled Radial Projections. *Proceedings of the*

*ISMRM Workshop on Flow and Motion: Imaging Assessment of Cardiovascular and Tissue Mechanics*, New York City, NY, USA, July 13-16, 2006, 8. (poster presentation)

- 11) **Wentland AL**, Korosec FR, Wieben O, Haughton VM. To Measure the Effect of the Valsalva Maneuver on CSF Flow in the Foramen Magnum. *Proceedings of the 92<sup>nd</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 26-December 1, 2006, LL-NR4165-R01. (oral presentation)
- 12) **Wentland AL**, Korosec FR, Wieben O, Grist TM. Evaluation of Renal Artery Blood Flow Measurements with 2D Phase Contrast MR using Undersampled Projections. *Proceedings of the 92<sup>nd</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 26-December 1, 2006, SSQ11-05. (oral presentation)
- 13) Sadowski EA, Bennett LK, Chan MR, **Wentland AL**, Reeder SB, Djamali A. Hot Topic: Gadolinium and Nephrogenic Fibrosing Dermopathy. *Proceedings of the 92<sup>nd</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 26-December 1, 2006, SSE07-06. (oral presentation)
- 14) **Wentland AL**, Sadowski EA, Djamali A, Becker BN, Korosec FR, Grist TM, Fain SB. Determining the Correlation of Cortical and Medullary Oxygenation and Perfusion in Transplanted Kidneys by Functional MRI. *Proceedings of the 15<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Berlin, Germany, May 19-25, 2007, 408. (oral presentation)
- 15) **Wentland AL**, Sadowski EA, Bennett LK, Garrett AL, Garrett RW, Korosec FR, Djamali A. Gadolinium and the Development of Nephrogenic Fibrosing Dermopathy. *Proceedings of the 15<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Berlin, Germany, May 19-25, 2007, 740. (oral presentation)
- 16) Roldán A, **Wentland AL**, Wieben O, Block WF, Klaers JL, Jung Y, Haughton TM, Osswald T. Numerical Modeling of CSF Flow in Patient-Specific Anatomical Models. *Proceedings of the 15<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Berlin, Germany, May 19-25, 2007, 1891. (poster presentation)
- 17) Farhoud M, **Wentland AL**, Wieben O, Klaers JL, Block WF, Jung Y, Roldán A, Haughton VM. Physical Models of Cerebrospinal Fluid Flow in Patients with Chiari I Malformation. *Proceedings of the 15<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Berlin, Germany, May 19-25, 2007, 1890. (poster presentation)
- 18) **Wentland AL**, Korosec FR, Wieben O, Vigen KK, Grist TM. Cine Flow Measurements using Phase Contrast with Undersampled Projections. *Proceedings of the ISMRM Workshop on Non-Cartesian MRI*, Sedona, AZ, USA, February 25-28, 2007, 17. (poster presentation)
- 19) Roldán A, **Wentland AL**, Wieben O, Osswald T, Farhoud M, Haughton VM. CSF Flow in the Chiari I Malformation Modeled with Computational Flow Dynamics. *Proceedings of the 45<sup>th</sup> Scientific Meeting of the American Society of Neuroradiology*, Chicago, IL, USA, June 9-14, 2007, 262. (oral presentation)
- 20) Roldán A, **Wentland AL**, Wieben O, Haughton VM, Osswald O, Chesler N. CFD Modeling for Patient-Specific Analysis of Cerebrospinal Fluid Flow. *Proceedings of the ASME*

- Bioengineering Conference*, Keystone, CO, USA, June 20-24, 2007, 503-4. (oral presentation)
- 21) Haughton VM, **Wentland AL**, Wieben O, Osswald T, Roldán A. CSF Flow in the Chiari I Malformation Modeled with Computational Flow Dynamics. *Proceedings of the Syringomyelia Conference*, Rugby, United Kingdom, October 23-26, 2007. (poster presentation)
  - 22) Ehrhardt J, Garrett RW, Hinshaw M, **Wentland AL**, Adulla M, Agrawal G, Bennett LK, Djamali A, Sadowski EA. Incidence of NSF: Comparison between Gadodiamide and Gadobenate. *Proceedings of the 2008 Abdominal Radiology Course of the Society of Gastrointestinal Radiologists*, Rancho Mirage, CA, USA, February 17-22, 2008.
  - 23) Garrett RW, Sadowski EA, Ehrhardt J, Hinshaw M, **Wentland AL**, Agrawal G, Bennett LK, Djamali A. Balancing the Risks and Benefits of Contrast Enhanced MR Imaging and NSF: Varying Experiences and Different Approaches. *Proceedings of the 94<sup>th</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 30-December 5, 2008, LL-PP1042-D. **RSNA Certificate of Merit**. (poster presentation)
  - 24) Agrawal G, Sadowski EA, **Wentland AL**, Fain SB, Grist TM, Shinki K, Djamali A. Prolonged Persistence of Gadoteridol Compared to Gadodiamide in Normal Subjects during Functional Renal MRI Reproducibility Studies. *Proceedings of the 94<sup>th</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 30-December 5, 2008, SSE23-04. (oral presentation)
  - 25) **Wentland AL**, Artz N, Djamali A, Grist TM, Agrawal G, Fain SB, Sadowski EA. Measurements of Renal Perfusion and Oxygenation in Swine: Preliminary Results. *Proceedings of the 17<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Honolulu, HI, USA, April 18-24, 2009, 2028. (poster presentation)
  - 26) Agrawal G, Fain SB, Artz N, **Wentland AL**, Grist TM, Djamali A, Sadowski EA. Blood-oxygen Level Dependent (BOLD) Imaging in Native and Transplanted Kidneys on 1.5T and 3T. *Proceedings of the 17<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Honolulu, HI, USA, April 18-24, 2009, 2027. (poster presentation)
  - 27) Artz N, **Wentland A**, Sadowski E, Wen Z, Grist T, Djamali A, Fain S. Comparing Kidney Perfusion using Arterial Spin Labeling and Microsphere Methods in an Interventional Swine Model. *Proceedings of the 17<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Honolulu, HI, USA, April 18-24, 2009, 1538. (poster presentation)
  - 28) Artz N, Sadowski E, **Wentland A**, Wen Z, Grist T, Djamali A, Fain S. Non-contrast Arterial Spin Labeling Approach to Kidney Perfusion: Assessing Reproducibility in Native and Transplanted Kidneys. *Proceedings of the 17<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Honolulu, HI, USA, April 18-24, 2009, 2038. (poster presentation)
  - 29) Garrett RW, **Wentland AL**, Djamali A, Agrawal G, Haemel A, Stanley E, Sadowski EA. Nephrogenic Systemic Fibrosis: Incidence Reduction with Screening and Use of Gadobenate Dimeglumine. *Proceedings of the 17<sup>th</sup> Scientific Meeting & Exhibition of the International*



- Society for Magnetic Resonance in Medicine*, Honolulu, HI, USA, April 18-24, 2009, 2512. (poster presentation)
- 30) **Wentland AL**, Rowley HA, Vigen KK, Field AS. Fetal Origin of the Posterior Cerebral Artery Produces Asymmetry on MR Perfusion Imaging. *Proceedings of the 47<sup>th</sup> Scientific Meeting of the American Society of Neuroradiology*, Vancouver, British Columbia, Canada, May 16-21, 2009, O-284. (oral presentation)
- 31) Artz N, Sadowski EA, **Wentland AL**, Huang Y, Grist TM, Djamali A, Fain SB. Non-Contrast Arterial Spin Labeling Approach to Kidney Perfusion: Assessing Reproducibility in Native and Transplanted Kidneys. *Proceedings of the 95<sup>th</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 29-December 4, 2009, SSM22-02. (oral presentation)
- 32) Artz NS, Sadowski EA, **Wentland AL**, Seo S, Fain SB, Djamali A. Non-invasive Evaluation of Perfusion in Native and Transplant Kidneys without a Contrast Agent. *Proceedings of the 42<sup>nd</sup> Annual Meeting of the American Society of Nephrology*, San Diego, CA, USA, October 27-November 1, 2009, SA-PO3061.
- 33) Artz NS, Sadowski EA, **Wentland AL**, Reese SR, Fain SB, Djamali A. Comparing Kidney Perfusion using MRI and Microsphere Methods in an Interventional Swine Model. *Proceedings of the 42<sup>nd</sup> Annual Meeting of the American Society of Nephrology*, San Diego, CA, USA, October 27-November 1, 2009, F-PO1725.
- 34) **Wentland AL**, Artz NS, Djamali A, Grist TM, Fain SB, Sadowski EA. Measurements of Renal Perfusion and Total Renal Blood Flow in Swine: Preliminary Results. *Proceedings of the ISMRM Workshop on Cardiovascular Flow, Function, and Tissue Mechanics*, Sintra, Portugal, September 11-13, 2009, 7.
- 35) Sadowski E, **Wentland A**, Fain S, Dance L, Djamali A, Artz N. Non-contrast MRI techniques: ASL Perfusion and BOLD MRI Measurements in Swine. *Proceedings of the Abdominal Radiology Course of the Society of Uroradiology*, Orlando, FL, USA, February 21-26, 2010.
- 36) Dance L, **Wentland A**, Artz N, Fain S, Djamali A, Sadowski E. Renal Perfusion and Oxygen Bioavailability in Swine: Comparing Isoflurane to Propofol. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 4678. (poster presentation)
- 37) **Wentland AL**, Artz NS, Djamali A, Grist TM, Fain SB, Sadowski EA. Measurements of Renal Perfusion, Oxygenation, and Total Renal Blood Flow in Swine. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 2675. (poster presentation)
- 38) **Wentland AL**, Biegling ET, Frydrychowicz A, Grist TM, Wieben O, François CJ. MRI Measurements of Wall Shear Stress in the Descending Aorta Downstream of an Ascending Aortic Aneurysm. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 1354. (poster presentation)
- 39) **Wentland AL**, Biegling ET, Frydrychowicz A, Schiebler ML, Grist TM, Wieben O, François CJ. MRI Measurements of Wall Shear Stress in the Infrarenal Aorta in the Young and Old.

- Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 1355. (poster presentation)
- 40) Chang W, Wu Y, Johnson K, **Wentland A**, Kecskemeti S, Mistretta C, Turski P. Automated Calculation of Wall Shear Stress in the Middle Cerebral Arteries of Healthy Volunteers using PC-VIPR and Spline Interpolation. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 4428. (poster presentation)
- 41) Hernandez L, **Wentland AL**, Biegging ET, François CJ, Wieben O. Comparing Wall Shear Stress Measurements in the Descending Aorta using Different Velocity Encoding Values. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 1351. (poster presentation)
- 42) Niles DJ, **Wentland AL**, Artz NS, Grist TM, Fain SB, Djamali A, Sadowski EA. ASL, BOLD, and Phase Contrast MRI Measurements in the Kidneys of Normotensive and Hypotensive Swine. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 2673. (poster presentation)
- 43) Artz N, Sadowski E, **Wentland A**, Seo S, Djamali A, Fain S. An Arterial Spin Labeling Approach to Kidney Perfusion: Assessing Reproducibility in Native and Transplanted Kidneys. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 1777. (poster presentation)
- 44) Artz N, **Wentland A**, Sadowski E, Grist T, Djamali A, Fain S. Comparing Kidney Perfusion using Arterial Spin Labeling and Microsphere Methods in an Interventional Swine Model. *Proceedings of the 18<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Stockholm, Sweden, May 1-7, 2010, 330. (oral presentation)
- 45) Niles DJ, Sadowski EA, Artz N, **Wentland AL**, Vigen KK, Grist TM, Fain SB, Djamali A. Non-Contrast Functional MRI: Reproducibility of BOLD, ASL and Diffusion in Native and Transplanted Kidneys. *Proceedings of the American Transplant Congress*, San Diego, CA, USA, May 1-5, 2010, 440.
- 46) Chang W, **Wentland A**, Kecskemeti S, Johnson K, Wu Y, Mistretta C, Turski P. Calculating Wall Shear Stress in the Basilar Artery of Healthy Volunteers using Automated Spline Interpolation and PC-VIPR, a Fast Radial Undersampled 3D PC-MRA Technique. *Proceedings of the 48<sup>th</sup> Scientific Meeting of the American Society of Neuroradiology*, Boston, MA, USA, May 15-20, 2010, 840. (poster presentation)
- 47) Niles DJ, Fain SB, Artz NS, **Wentland AL**, Huang Y, Vigen KK, Grist TM, Djamali A, Sadowski EA. BOLD MRI Measurements Pre-Transplantation and 3 Months Post-Transplantation in Donor-Recipient Pairs. *Proceedings of the 96<sup>th</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 28-December 3, 2010, LL-GUS-TU3A. (poster presentation)

- 48) Artz NS, Sadowski EA, **Wentland AL**, Niles DJ, Huang Y, Vigen KK, Grist TM, Djamali A, Fain SB. MR Perfusion Measurements Prior to Kidney Transplantation and 3 Months Post-transplantation in Donor-Recipient Pairs. *Proceedings of the 96<sup>th</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, November 28-December 3, 2010, LL-GUS-TU3B. (poster presentation)
- 49) Sadowski EA, Niles DJ, Artz NS, **Wentland AL**, Vigen KK, Grist TM, Fain SB, Djamali A. Non-Contrast Functional MRI of the Native and Transplanted Kidney. *Proceedings of the Society of Uroradiology Abdominal Radiology Course*, Carlsbad, CA, USA, March 20-25, 2011.
- 50) **Wentland AL**, Wieben O, Johnson KM, François CJ, Grist TM, Frydrychowicz A. Comparison of Pulse Wave Velocity Measurements from 2D PC Slices and Radially Undersampled 4D PC MR. *Proceedings of the 19<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Montréal, Québec, Canada, May 7-13, 2011, 1198. (poster presentation)
- 51) Artz N, Sadowski E, Niles D, **Wentland A**, Djamali A, Grist T, Fain S. Renal Perfusion Measured Pre- and Post-Transplantation with ASL MRI in Donor-Recipient Pairs. *Proceedings of the 19<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Montréal, Québec, Canada, May 7-13, 2011, 447. (oral presentation)
- 52) Anderson AG, **Wentland AL**, Wieben O. On the Advantages of Retrospectively Gated Radial Acquisitions for Cine Phase Contrast Flow Imaging. *Proceedings of the 19<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Montréal, Québec, Canada, May 7-13, 2011, 2621. (poster presentation)
- 53) **Wentland AL**, Wieben O, Johnson KM, François CJ, Grist TM, Frydrychowicz A. Pulse Wave Velocity Measurements from 2D PC Slices and Radially Undersampled 4D PC MR. *Proceedings of the 23<sup>rd</sup> Annual Meeting of the MR Angio Club*, Banff, Alberta, Canada, September 25-28, 2011, 13.7. (poster presentation)
- 54) **Wentland A**, Grist TM, Wieben O. Repeatability and Internal Consistency of Abdominal 2D and 4D PC MR Flow Measurements. *Proceedings of the ISMRM Workshop on Exploring New Dimensions of Cardiovascular Flow & Motion*, Orlando, FL, USA, February 1-2, 2012, W13. (oral presentation)
- 55) Frydrychowicz A, **Wentland AL**, Johnson KM, François CJ, Grist TM, Wieben O. Pulse Wave Velocity Measurements in 5-point Velocity Encoded Radially Undersampled 4D Phase Contrast MR Data (PC-VIPR). *Proceedings of the Annual Meeting of the European Society of Radiology*, Vienna, Austria, March 1-5, 2012.
- 56) **Wentland AL**, Wieben O, Grist TM, Johnson KM. McKinnon-Bates Sparsification for Accelerated Phase Contrast Imaging. *Proceedings of the 20<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Melbourne, Victoria, Australia, May 5-11, 2012, 3860. (poster presentation)
- 57) **Wentland AL**, Sweitzer NK, Wieben O, Sadowski EA, Grist TM, François CJ. Oxygen Bioavailability and Pulse Wave Velocity in Patients with Metabolic Syndrome. *Proceedings of the 20<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Melbourne, Victoria, Australia, May 5-11, 2012, 4093. (poster presentation)

- 58) **Wentland AL**, Djamali A, Reese SR, Fain SB, Grist TM, François CJ, Kolterman AJ, Sadowski EA. Renal Oxygen Bioavailability in Healthy Volunteers and Patients with Well-Functioning and Diseased Renal Transplants. *Proceedings of the 20<sup>th</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Melbourne, Victoria, Australia, May 5-11, 2012, 4059. (poster presentation)
- 59) Frydrychowicz A, **Wentland AL**, Johnson KM, François CJ, Grist TM, Wieben O. Evaluation of PWV-Quantification Based on Radially Undersampled 4D Flow MRI (PC-VIPR). *Proceedings of the 93<sup>rd</sup> Annual Meeting of the German X-Ray Society*, Hamburg, Germany, May 16-19, 2012.
- 60) Frydrychowicz A, **Wentland AL**, Johnson KM, François CJ, Grist TM, Wieben O. Evaluation of PWV-Quantification Based on Radially Undersampled 4D Flow MRI (PC-VIPR). *Proceedings of the 4<sup>th</sup> German Days of Cardiac Diagnostics*, Leipzig, Germany, February 9-11, 2012.
- 61) Akhtar Z, **Wentland AL**, Artz NS, Fain SB, Djamali A, Sadowski EA. Changes to Renal Perfusion and Oxygen Bioavailability in Swine when Exposed to Propofol and Isoflurane Anesthesia. *Proceedings of the Kidney Week of the American Society of Nephrology*, San Diego, CA, USA, October 30 – November 4, 2012, PUB484.
- 62) Nagle SK, **Wentland AL**, Johnson KM, François CJ, Schiebler ML, Fain SB. Breath-Held MRA Compared with Free-Breathing UTE for Assessment of Pulmonary Arteries and Other Intrathoracic Structures. *Proceedings of the 24<sup>th</sup> Annual Meeting of the MR Angio Club*, Utrecht, The Netherlands, September 19-21, 2012. (oral presentation)
- 63) **Wentland AL**, Grist TM, Shanmuganayagam D, Krueger CG, McBride PE, Meudt JJ, Reed JD, Wieben O. Evaluation and Validation of Pulse Wave Velocity Measurements from 2D and 4D PC MRI in Swine with Familial Hypercholesterolemia: Initial Results. *Proceedings of the 21<sup>st</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Salt Lake City, UT, USA, April 20-26, 2013, 65. **Magna Cum Laude award.** (oral presentation)
- 64) François CJ, Roldán-Alzate A, **Wentland AL**, Kellihan HB, Chesler NC, Wieben O. 4D Flow-Sensitive MRI Pulmonary Artery Pulse Wave Velocity in Pulmonary Arterial Hypertension. *Proceedings of the 21<sup>st</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Salt Lake City, UT, USA, April 20-26, 2013, 1356. (poster presentation)
- 65) Kramer H, Arnoldi E, François CJ, **Wentland AL**, Nikolaou K, Wintersperger BJ, Reiser M, Grist TM. Dynamic and Static MR Angiography of the Supraaortic Vessels at 3.0 T: Intraindividual Comparison of Gd-Based Contrast Agents at Single Dose. *Proceedings of the 21<sup>st</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Salt Lake City, UT, USA, April 20-26, 2013, 4460. (poster presentation)
- 66) **Wentland AL**, McWalter EJ, Pal S, Delp SL, Gold GE. Non-Invasive in vivo Measurements of Inertial Forces in Muscle using Phase Contrast Magnetic Resonance Imaging. *Proceedings of the 22<sup>nd</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Milan, Italy, May 10-16, 2014, 828. **Summa Cum Laude award.** (oral presentation)

- 67) Smits ML, Daniel BL, Clarke SE, McKenney J, **Wentland A**, Saranathan M, Shin L, Sung K, Hargreaves B, Saritas EU, Nishimura DG, Sommer G. Accuracy of Multiparametric MRI for Mapping Prostate Cancer by Gleason Score. *Proceedings of the 22<sup>nd</sup> Scientific Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*, Milan, Italy, May 10-16, 2014, 4102. (poster presentation)
- 68) Phillips AW, Baird JH, **Wentland AL**, Yang RL, Massoud TF. Erythrocytosis Presenting as False Positive Intracranial Hemorrhage in High Mechanism Trauma. *Proceedings of the 9<sup>th</sup> Mediterranean Emergency Medicine Congress*, Lisbon, Portugal, September 6-10, 2017, 3P-198. (poster presentation)
- 69) **Wentland AL**, Troxell M, Kamaya A. Bladder Cancer and Its Mimics: Sonographic Evaluation with CT/MR Correlation. *Proceedings of the Society of Abdominal Radiology*, Orlando, FL, USA, March 17-22, 2019, 143. (poster presentation)
- 70) **Wentland AL**, Rubin DL, Kamaya A. An Artificial Intelligence Approach to Improve the Differentiation of Surgical from Non-Surgical Cystic Renal Lesions. *Proceedings of the 105<sup>th</sup> Scientific Assembly of the Radiological Society of North America*, Chicago, IL, USA, December 1-5, 2019, AI036. (poster presentation)
- 71) **Wentland AL**, Yamashita R, Kamaya A. Radiomics and a Machine Learning Model to Differentiate Benign from Malignant Pathology-Proven Solid Renal Lesions. *Proceedings of the Society for Advanced Body Imaging*, New Orleans, LA, USA, October 10-14, 2020, P13. (poster presentation)
- 72) Zambrano Chaves JM, Chaudhari AS, **Wentland AL**, Jeffrey RB, Rubin D, Patel B. Opportunistic Screening for Ischemic Heart Disease Risk Using Abdominopelvic Computed Tomography and Medical Record Data: A Multimodal Explainable Artificial Intelligence Approach. *Proceedings of the Society of Abdominal Radiology*, Hollywood, FL, USA, March 21-26, 2021. (oral presentation) **Best Technology Paper Award.**

## Case Reports

- 1) **Wentland AL**, Wood M, Chiu R, Morimoto LN, Jeffrey RB. American College of Radiology Case in Point. Intussuscepting gallbladder secondary to metastatic melanoma. April 29, 2019.
- 2) Hayat MR, **Wentland AL**, Ashouri S, Kamaya A. American College of Radiology Case in Point. Bladder Paraganglioma. Accepted.

## Presentations

### *Invited*

- 1) Biomarkers of Atherosclerosis with 4D Phase Contrast MRI. Presented to the Radiological Sciences Laboratory, Stanford University, Stanford, CA, USA, January 2013.

- 2) Biomarkers of Atherosclerosis with 4D Phase Contrast MRI. Presented to the Magnetic Resonance Systems Research Laboratory, Stanford University, Stanford, CA, USA, January 2013.
- 3) Derivation of Force from Phase Contrast Magnetic Resonance Imaging. Presented to the Body Magnetic Resonance Group, Stanford University, Stanford, CA, USA, January 2013.
- 4) MRI: Basics and Safety. Presented to the Stanford Center for Clinical Research (SCCR) Science Series, Stanford University, Stanford, CA, USA, January 9, 2019.
- 5) An Artificial Approach to Improve the Differentiation of Differentiation of Surgical from Non-Surgical Renal Lesions, Presented for Grand Rounds, Department of Radiology, Stanford University, Stanford, CA, USA, March 13, 2020.

### *Departmental*

- 1) Flow in Radially Acquired Magnetic Resonance Imaging: Methods and Applications in Atherosclerotic Disease. Presented to the Department of Medical Physics, University of Wisconsin School of Medicine & Public Health, Madison, WI, USA, November 2012.
- 2) Artificial Intelligence Applications in Abdominal Imaging, Presented at the Medical Physics Seminar Series, University of Wisconsin School of Medicine & Public Health, Madison, WI, USA, March 1, 2021.

## **Professional Societies**

2004 – Present	International Society for Magnetic Resonance in Medicine (ISMRM)
	<i>2004 – Present      Member</i>
	<i>2012 – Present      Junior Fellow</i>
	<i>2012 – 2014      Observing Member, Annual Meeting Program Committee</i>
2004 – Present	Radiological Society of North America (RSNA)
	<i>2004 – Present      Member</i>
	<i>2012      Attendee, Introduction to Academic Radiology</i>
	<i>2018      Reviewer, Radiology Trainee Grant Section</i>
	<i>2020      Reviewer, Radiology Trainee Grant Section</i>
	<i>2021      Reviewer, Radiology Trainee Grant Section</i>
2020 – Present	Member, Society for Advanced Body Imaging (SABI)
	<i>2020 – Present      Member</i>
	<i>2021      Member, Early Career Committee</i>

## **Journal Reviewer**

2010 – Present	Medical Engineering & Physics
2011 – Present	Journal of Magnetic Resonance Imaging

2011 – Present	Nephrology Dialysis Transplantation
2011 – Present	Clinical Journal of the American Society of Nephrology
2014 – Present	Magnetic Resonance Imaging
2014 – Present	European Radiology
2014 – Present	Hypertension
2014 – Present	Atherosclerosis
2017 – Present	Radiology
2017 – Present	Magnetic Resonance in Medicine
2018 – Present	Circulation: Cardiovascular Imaging
2019 – Present	Radiology: Cardiothoracic Imaging

### **Editorial Positions**

2016 – Present	Associate Editor, Journal of Magnetic Resonance Imaging
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### **Abstract Reviewer**

2013	International Society for Magnetic Resonance in Medicine (ISMRM) Flow and Motion Section
2015	International Society for Magnetic Resonance in Medicine (ISMRM) Flow and Motion Section
2019	International Society for Magnetic Resonance in Medicine (ISMRM) Body: Genitourinary Section
2020	International Society for Magnetic Resonance in Medicine (ISMRM) Body: Genitourinary Section
2021	International Society for Magnetic Resonance in Medicine (ISMRM) Body: Kidney Section

### **Grant Reviewer**

2016	Swiss National Science Foundation
2018	Radiological Society of North America (RSNA) Radiology Trainee Grant Section

- 2020                      Radiological Society of North America (RSNA)  
Radiology Trainee Grant Section
- 2021                      Radiological Society of North America (RSNA)  
Radiology Trainee Grant Section

## Grant Support

### *Completed Funding:*

An Artificial Intelligence Approach to Improve the Differentiation of Surgical from Non-Surgical Cystic Renal Lesions

Granting Agency: Radiological Society of North America

Principle Investigator: **Wentland AL**

Co-Investigators: Kamaya A, Rubin D

07/01/19 – 06/30/20    Total: \$30,000

MR Biomarkers for the Noninvasive Evaluation & Early Detection of Atherosclerosis

Granting Agency: National Institutes of Health, NHLBI

Principle Investigator: **Wentland AL**

Grant Number: 1F30HL108539-01

06/01/11 – 05/31/15    Total: \$157,103

Non-Contrast Perfusion MRI Techniques: Validation in Swine and Correlation with BOLD MRI Measurements Granting Agency: Society of Uroradiology

Principal Investigator: Sadowski EA

Co-Investigators: **Wentland AL**, Fain SB, Grist TM, Artz N, Djamali A

01/13/09 - 08/01/10    Total: \$10,000

## Academic Service

- 2009 – 2015              President, University of Wisconsin Radiology Interest Group
- 2011 – 2013              Admissions Committee Member, University of Wisconsin Medical  
Scientist Training Program
- 2020                      Expert Panelist, Phase Contrast MRI of the Kidneys, PARENCHIMA
- 2021                      Poster Facilitator, ISMRM, Renal Vascular & Parenchymal Pathology

## Mentoring

### *Undergraduates*

- 2021 – Present              Lucas Aronson, University of Wisconsin – Madison

### *Post-baccalaureate*



2021 – Present      Ruben Massa'a, University of Wisconsin – Madison

## Honors & Awards

### *Post-doctoral*

2020                      Roentgen Resident/Fellow Research Award, Radiological Society of North America

2019                      Resident/Fellow Research Grant, Radiological Society of North America

2017                      Etta Kalin Moskowitz Fund Research Award

2015                      Dr. B.K. & Tomina Lovell Memorial Scholarship

2014                      Summa Cum Laude Merit Award, International Society for Magnetic Resonance in Medicine

2013                      Magna Cum Laude Merit Award, International Society for Magnetic Resonance in Medicine

### *Pre-doctoral*

2012                      Scholarship, Introduction to Academic Radiology (ITAR) Program, RSNA/APSA (Radiological Society of North America/American Physician Scientists Association)

2012                      Junior Fellow, International Society for Magnetic Resonance in Medicine

2011                      Trainee Stipend, International MR Angiography Club

2011                      Educational Stipend, International Society for Magnetic Resonance in Medicine

2011                      NHLBI Ruth L. Kirschstein National Research Service Award for Individual Predoctoral MD/PhD Fellows (F30)

2009                      Society of Uroradiology Research Award

2008                      Research Medical Student Grant, Radiological Society of North America

2007                      Educational Stipend, International Society for Magnetic Resonance in Medicine

2006                      University Bookstore Academic Excellence Award

2006                      Educational Stipend, International Society for Magnetic Resonance in Medicine

- 2005 Induction, Phi Kappa Phi, University of Wisconsin – Madison
- 2005 Outstanding Senior Award, University of Wisconsin – Madison College of Engineering
- 2005 Scholarship for Outstanding Performance, University of Wisconsin – Madison Department of Biomedical Engineering
- 2005 Rita Schaffer Undergraduate Award, National Biomedical Engineering Society
- 2005 Hilldale Undergraduate/Faculty Research Fellowship
- 2005 Meyerhoff Undergraduate Excellence Award for Leadership, Scholarship, and Service
- 2005 Educational Stipend, International Society for Magnetic Resonance in Medicine
- 2005 Iron Cross Society, University of Wisconsin – Madison
- 2004 Scholarship for Outstanding Performance, University of Wisconsin – Madison Department of Biomedical Engineering
- 2004 Tau Beta Pi Engineering Honor Society, University of Wisconsin – Madison
- 2003 Scholarship for Outstanding Performance, University of Wisconsin – Madison Department of Biomedical Engineering