1-PERSONAL DATA

JASON M. OSTENSON, MS, PHD
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D0B: July 14, 1979; Tacoma, WA

2-EDUCATION

Vassar College, Poughkeepsie, NY
BA in Physics and Astronomy — Aug. 1998-May 2002

Columbia University, New York, NY
MS in Medical Physics — Aug. 2006-Oct. 2007

Vanderbilt University, Nashville, TN
Thesis: *Magnetic resonance fingerprinting for rapid quantitative imaging of the liver*
Doctoral Program in Chemical and Physical Biology - Imaging Science Track
Advisors: Dr. Bruce M. Damon and Dr. E. Brian Welch — Aug. 2015-Feb. 2020

3-POSTGRADUATE TRAINING

None

4-FACULTY POSITIONS HELD

Research Assistant Professor, Department of Radiology and Radiological Sciences, Vanderbilt University Institute of Imaging Science, Vanderbilt University Medical Center, Nashville, TN
Feb. 2020-June 2023

5-HOSPITAL POSITIONS HELD

Medical Physicist, Department of Radiation Oncology, St. Luke's-Roosevelt Hospital Center, New York, NY

May 2008-July 2013

Medical Physicist (*per diem*), Stich Radiation Oncology Center, New York-Presbyterian/Weill Cornell Medical Center - Stich Radiation Oncology Center, New York, NY

Various mo. 2013-2015

Medical Physicist/MRI Scientist, Department of Radiology, University of Washington, Seattle, WA

July 2023-present

6-HONORS

Sigma Xi, 2002

7-BOARD CERTIFICATION

Diplomate of the American Board of Radiology in Therapeutic Medical Physics, 2012
(MOC not current)

8-CURRENT LICENSE TO PRACTICE

New York State License in Therapeutic Radiological Physics; Exp. June, 2025; License Number 000442

9-DEI ACTIVITIES

None

10-PROFESSIONAL ORGANIZATIONS

International Society for Magnetic Resonance in Medicine
American Association of Physicists in Medicine

11-TEACHING RESPONSIBILITIES

UW MRI for Radiology Residents, Teaching 6/8 lectures, Sep.-Oct. 2023
Master's in Imaging Science Program Committee, June 2022-June 2023

12-14-EDITORIAL RESPONSIBILITIES, SPECIAL NATIONAL RESPONSIBILITIES, SPECIAL LOCAL RESPONSIBILITIES

None

15-CLINICAL ACTIVITIES

Diagnostic quality control and quality assurance of clinical MRI systems. Radiation therapy treatment planning and plan review, linear accelerator calibration, quality control/assurance on radiation therapy and imaging subsystems, intra-operative prostate brachytherapy, radiation safety consultations, and stereotactic radiosurgery planning and quality control.

16-RESEARCH FUNDING

Vanderbilt Clinical and Translation Research (Intramural), Nov. 2021-June 2023, $15k

17-BIBLIOGRAPHY

A) PEER REVIEWED MANUSCRIPTS

1-Elmegreen DM, Chromey FR, McGrath EJ, and **Ostenson J**. Circumnuclear Star Formation in the Spiral Galaxy NGC 3310. The Astronomical Journal. 2002 March; 123(3): 1381+.

2-Maletz KL, Ennis RD, **Ostenson J**, Pevsner A, Kagen A, Wernick I. Comparison of CT and MR-CT Fusion for Prostate Post-Implant Dosimetry. *International Journal of Radiation Oncology, Biology, Physics*. 2012 Apr 1; 82(5): 1912-1917. 10.1016/j.ijrobp.2011.01.064. PMID: 21550183

3-Evans AJ, Lee DY, Jain AK, Razi SS, Park K, Schwartz GS, Trichter F, **Ostenson J**, Sasson JR, Bhora FY. The effect of metallic tracheal stents on radiation dose in the airway and surrounding tissues. *Journal of Surgical Research*. 2014 Jun 1; 189(1):1-6. 10.1016/j.jss.2014.01.013. PMID: 24656475

4-**Ostenson J**, Pujara AC, Mikheev A, Moy L, Kim SG, Melsaether AN, Jhaveri K, Adams S, Faul D, Glielmi C, et al. Voxelwise analysis of simultaneously acquired and spatially correlated 18 F-fluorodeoxyglucose (FDG)-PET and intravoxel incoherent motion metrics in breast cancer. *Magnetic Resonance in Medicine*. 2017; 78(3):1147–1156. 10.1002/mrm.26505. PMID: 27779790

5-**Ostenson J**, Robison RK, Zwart NR, Welch EB. Multi-frequency interpolation in spiral magnetic resonance fingerprinting for correction of off-resonance blurring. *Magnetic Resonance Imaging*. 2017; 41:63–72. 10.1016/j.mri.2017.07.004. PMID: 28694017

6-**Ostenson J**, Damon BM, Welch EB. MR fingerprinting with simultaneous T_1, T_2, and fat signal fraction estimation with integrated B_0 correction reduces bias in water T_1 and T_2 estimates. *Magnetic Resonance Imaging*. 2019; 60:7-19. 10.1016/j.mri.2019.03.017. PMID: 30910696

7-**Ostenson J**, Smith DS, Does MD, Damon BM. Slice-selective extended phase graphs in gradient-crushed, transient-state free precession sequences: An application to MR fingerprinting. *Magnetic Resonance in Medicine*. 2020; 84(6):3409-3422. 10.1002/mrm.28381. PMID: 32697869

8-Wang D, **Ostenson J**, Smith DS. snapMRF: GPU-accelerated magnetic resonance fingerprinting dictionary generation and matching using extended phase graphs. *Magnetic Resonance Imaging.* 202; 66:248-256. 10.1016/j.mri.2019.11.015. PMID: 31740194

9-**Ostenson J**, Robison RK, Brittain EL, Damon BM. Feasibility of joint mapping of triglyceride saturation and water longitudinal relaxation in a single breath hold applied to high fat-fraction adipose depots in the periclavicular anatomy. *Magnetic Resonance Imaging*. 2023;99:58–66. doi:10.1016/j.mri.2023.02.001. PMID: 36764629

B-D) COLLABORATIVE AUTHORSHIP, MEDEDPORTAL, BOOK CHAPTERS

N/A or none

E) SOFTWARE

1-Reproducibility code for various publications above: https://github.com/jostenson

F-G) OTHER PUBLICATIONS, MANUSCRIPTS SUBMITTED

None

H) ABSTRACTS (LAST 5 YEARS)

1-**Ostenson J**. Damon BM, Welch EB. Unbalanced Steady-State Free Precession MR Fingerprinting with Simultaneous Fat Signal Fraction, T_1 , T_2 and B_0 Estimation. Proc Intl Soc Mag Reson Med. 2018. Paris, France. E-poster #4262. *Peer reviewed*.

2-**Ostenson J**. Simultaneous triglyceride characterization and water T_1 estimation in a breath-hold applied to brown adipose tissue using MR fingerprinting. Proc Intl Soc Mag Reson Med. 2022. London, United Kingdom. E-poster #2111. *Peer reviewed.*

3- Harkins KD, **Ostenson J**, Adelnia F,Wang F, Zu Z, Gore JC. B1 and B0 insensitive R1rho preparation pulses can reduce sensitivity to R1rho dispersion. Proc Intl Soc Mag Reson Med. 2023. Toronto. E-poster #4904. *Peer reviewed.*

4-**Ostenson J,** Zu Z. Simulation of a dynamic saturation CEST technique using MR fingerprinting for quantitative amide proton transfer imaging at 3 T. Proc Intl Soc Mag Reson Med. 2023. Toronto, Canada. E-poster #3173. *Peer reviewed.*

18-INVITED TALKS

A-B) NATIONAL, REGIONAL

None

C) LOCAL

1- **Ostenson J**, Ennis R. Incorporating MRI into Radiation Oncology Prostate Cancer Practice MRI-CT: How We Do It. Roentgen Society Meeting; Nov 12, 2012. New York, NY.
2- **Ostenson J**. Extracranial Applications of Model-Based Fat-Water Quantitative MRI. Vanderbilt University of Imaging Science Fall 2020 Seminar Series. Nashville, TN.