

CURRICULUM VITAE

Date of Revision: 10/9/2016

Name: Dana C. Peters, Ph.D.

Proposed for Promotion to: Associate Professor, Department of Radiology and Biomedical Imaging, Traditional Track.

Term: Beginning September 2017

School: Yale University School of Medicine

Reason for Promotion:

Education:

BA, cum laude	Physics	The Johns Hopkins University (1988)
M.A.	Classics	University of Wisconsin-Madison (1999)
Ph.D	Physics	University of Wisconsin-Madison (1999)

Advisor: Charles A. Mistretta

Career/Academic Appointments:

1990-1993	Member of Technical Staff, Computer Sciences Corporation & Goddard Space Flight Center, Greenbelt, MD
2000-2003	Postdoctoral Fellow, NHLBI, Laboratory of Cardiac Energetics, Bethesda, MD Advisor: Elliot R. McVeigh
Sept 2003-2006	Instructor, Medicine, Harvard Medical School, Boston, MA
2006-1/2011	Assistant Professor, Medicine, Harvard Medical School, Boston, MA
2/2011-9/2012	Associate Research Scientist, Diagnostic Radiology, Yale School of Medicine.
10/2012 - 2017	Assistant Professor, Department of Radiology and Biomedical Imaging, Yale School of Medicine.
7/2017	Associate Professor, Department of Radiology and Biomedical Imaging, Yale School of Medicine

Administrative Positions:

2003-2006	Assistant Scientific Director, Cardiac MR Center Medicine/Cardiovascular Division, Beth Israel Deaconess Medical Center
2006-2011	Scientific Director, Cardiac MR Center, Medicine/Cardiovascular Division, Beth Israel Deaconess Medical Center
2006-2011	Co-organizer, Beth Israel Deaconess CMR Conference, Boston, MA
2012	Member, Division of Bioimaging Sciences, Department of Diagnostic Radiology.

Board Certification:

None.

Professional Honors & Recognition (list from most recent to earliest):

2015: Interview, Cardiovascular Business:
<http://www.cardiovascularbusiness.com/topics/imaging/cardiac-mr-closing-gap-redo-ablations>
2015: ISMRM Women's Forum—MR Expert.
2015: Moderator, MR Angio Club, Cincinnati Ohio.
2009: Philips Netforum Community Exam Card Contributor (MRI Protocol)
2006: Best Oral Abstract finalist, Society of Cardiovascular Magnetic Resonance
2006: AHA Scientist Development Grant Award
1988: Cum Laude, Johns Hopkins University.

Innovation

1999: **Patent:** C.A. Mistretta, **D.C. Peters**, inventors. Rapid acquisition magnetic resonance imaging using radial projections. **US Patent No. 6,630,828.** www.warf.org/ipstatus/P98238US.PDF
This is a patent on rapid imaging using undersampling. It has wide applications internationally for imaging using radial acquisition, collecting reduced amounts of data. **LICENSED.**

Grant/Clinical Trials History:

Current Grants

Funded

Agency: NIH NHLBI
ID# 1R01HL122560-01A1
Title: Detection of Atrial Remodeling by MRI: Validation and Emerging Significance
Principal Investigator: Peters, DC
Direct costs per year: \$250,000 DC/year
Percent Effort: 4 calendar months/ 33% effort
Project Period: 11/2014 – 11/2018

Agency: Yale Liver Center Pilot Grant
Title: Magnetic Resonance Biomarkers of Acidosis in the Liver Tumor Microenvironment
Principal Investigator: Peters, DC
Direct costs per year: \$25,000 DC/year
Percent Effort: 0 %
Project Period: 9/2016 – 9/2017

Agency: NIH NIBIB
ID #R01 EB 012289
Title: Null Space Imaging - A Novel Approach to Accelerating MR Imaging
Principal Investigator: Constable, RT
Direct costs per year: \$443,102 DC/year
Total costs: \$3,327,757 total DC
Percent Effort: 2.4 calendar months/ 20% effort
Project Period: 09/01/2010 - 08/31/2015

Agency: NIH NLHBI
ID #R01 HL11335204
Title: Molecular imaging predicts atrial remodeling and fibrillation vulnerability
Principal Investigator: Sinusas, AJ
Direct costs per year: \$450,000 DC/year
Total costs: \$1,800,000 total DC
Percent Effort: 0.6 calendar months/ 5% effort
Project Period: 02/01/2013 - 03/1/2017

Current Clinical Trials

None

Past Grants

Agency: NIH NHLBI
ID#1R21HL103463
Title: In Search of the Arrhythmogenic Grey Zone within Myocardial Scar Using Late Gadolinium Enhancement
P.I.: Dana C. Peters, PhD
Percent Effort: 3.0 calendar/ 25% effort
Total costs per year: \$125,000 DC/year
Total costs: \$455,875 total DC
Project Period: 6/15/2011 - 05/31/2015 NCE

Agency: NIH NHLBI
ID#: R21 HL 098573
Title: Late Gadolinium Enhancement Cardiovascular MR for the Detection of Pre-Existent Left Atrial Scar in Patients with Atrial Fibrillation
P.I.: Dana C. Peters, PhD
Percent Effort: 2.82 calendar/19% effort
Direct costs per year: \$193,966 DC/year
Total costs: \$259,435 total DC
Project Period: 08/24/2011 – 06/30/2013 NCE

Agency: American Heart Association
ID#: AHA Scientist Development Grant
Title: Visualization of heart disease with higher spatial resolution using free-breathing MRI
P.I.: Dana C. Peters, PhD
Percent Effort: 3.0 calendar/25% effort
Direct costs per year: \$65,000 DC/year
Total costs \$260,000 total DC
Project Period: 2005-2008

Agency: Lantheus Medical Imaging
ID #:

Title: Preliminary BIDMC Rabbit study of **BMS753951**

P.I.: Dana C. Peters, PhD

Percent Effort: 0.6 Calendar / 5%

Direct costs per year: \$24,000 DC

Project Period: 2010

Agency: NIH NIBIB

ID # K01 EB004434

Title: Cardiac MRI with 3D undersampled radial imaging

P.I.: Dana C. Peters, PhD

Percent Effort: 9 Calendar/75%

Direct costs per year: \$105,000,

Total costs: \$525,000 DC total

Project Period: 2005-2010

Past Clinical Trials

None

Formally Supervised Trainees

- 2003-2004 Pratik Rohatgi, MS, Medical Student at University of Michigan, Ann Arbor
Wrote two published papers on cardiac MR
- 2004-2005 Hanan Al-Awahdi, BA, Scientist in Kuwait
Studied pericardial fluid in coronary MRI.
- 2004-2005 Roger Fischer, MS, Engineer in Zurich, Switzerland.
Completed MS thesis, and wrote paper on respiratory compensation methods for MRM.
- 2005 Kai Eberhardt, MS, PhD student at ETH, Zurich
Completed MS thesis
- 2005 April Chow, BA, PhD student at Hong Kong University
Completed a published study (abstract) on coronary MR quality
- 2006 Jorge Alvarado, BA, now a medical student
Completed a thesis on left atrial motion
- 2006 Yuri Ishihara, MD, working on a PhD at Harvard
Studied the relationship between an interventional ablation procedure and resulting scar.
- 2007 Thomas Thuring, MS, PhD student at ETH Zurich
Completed BA thesis on compressed sensing.
- 2008 Basem Dokhan, MS, Engineer in Germany
Completed MS thesis, and co-author of 2 papers
- 2008 Felix Liu, BA, scientist at Parexcel, and enrolled in Bioimaging MS program
Studied involuntary motion of subjects in the MR scanner
- 2008 Jeongjoo Woo, MD, Radiologist in Seoul, Korea.
Studied pre-existent scar, co-authored 1 paper, 1 manuscript in progress, and 2 presentations at RSNA and AHA (oral).
- 2008-2009 Jason E. Taclas, MS
Author of 4 abstracts, first author of a paper in revisions, and co-author of published paper, on correlation of left atrial scar patterns with electrophysiological data.

- 2009 Claudio Santelli, MS, currently working to obtain a PhD at ETH Zurich
Submitted at ISMRM abstract.
- 2009-2011 Benjamin R. Knowles, PhD, postdoctoral fellow, now at University of Frieberg.
- 2009-2011 Jaime L. Shaw, BS, currently working as a researcher at BIDMC
3 Abstracts accepted, 2 manuscripts in preparation.
- 2011-2012 Shu Li, MS from ETH Zurich, currently a PhD Candidate at ETH. Author of 1 paper.
- 2013 Prasanta Pal, PhD, postdoctoral fellow
- 2013 Emma Baker, B.S. Summer research assistant.
- 2013-2014 Cheong Chan, MS, working on algebraic reconstruction technique, and GPU
implementation. Currently a PhD student at Georgia Tech. Submitted 2 abstracts, and co-
author on 1 paper.
- 2014- Bethlehem Meckonnen, Currently at medical student at Yale School of Medicine.
- 2014-2015 Karl Grunseich, Currently a resident in radiology at UCSF, 1 manuscript in submission.
- 2014-2015 Edgar Diaz, Summer Science Research Institute
- 2012-2014 Sudhakar Chelikani, PhD, postdoctoral fellow, with 2 manuscripts in progress. Currently
working on Wall-Street.
- 2015 Anamika Veeramani, undergraduate research student, perspectives in medicine.
- 2015-Present Chenxi Hu, Postdoctoral Fellow.
- 2015 Ita Caroline, Summer Science Research Institute
- 2016-Present Michael Quail, Fullbright Scholar
- 2017 Ricardo Vera-Gonzalez, International visiting student
- 2017 Felicia Seemann, visiting PhD student.

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:

International/National

- 5/2017 Invited Faculty, Weekday Session: Heart Failure & Arrhythmia, 25th ISMRM Annual Meeting,
Honolulu, Hawaii, USA
- 2/2017 Invited Faculty, Tenth Annual Western Atrial Fibrillation Symposium, Park City, Utah.
- 2/2015 Invited Faculty, CMR Pre-Conference, SCMR, Nice, France. CMR in patients with
arrhythmia.
<http://scmr.peachnewmedia.com/store/streaming/stream-details.php?mode=stream&id=5109213#>
- 8/2014 Invited Speaker, University of Western Ontario, Robarts Imaging Center, London, ON.
- 4/2014 St. Francis Hospital, Cardiac Diagnostic Imaging, Long Island, NY
- 11/2013 Yale Translation Imaging Center Conference.
- 5/2013 Invited faculty, Basic Principles of MRI, and its Utility Related to Ablation Procedures, Heart
Rhythm Society, Boulder, CO.
- 2013 Old and New Directions in Cardiac MR, Beth Israel Deaconess CMR conference, Boston, MA
- 2012 Co-organizer, International Symposium on Biomedical Imaging, Cardiac delayed-enhancement
magnetic resonance image segmentation Challenge.
- 2012 Interventional MRI, Beth Israel Deaconess Non-invasive imaging conference: Boston MA.
- 2012 Invited faculty, Role of MRI in Imaging Ablation, Heart Rhythm Society, Boston, MA
- 2012 Invited faculty, Post-ablation MR Imaging, Heart Rhythm Society, Boston, MA
- 2011 Invited faculty, Imaging of thermal ablations (and CRT), Society of Cardiovascular Magnetic
Resonance, Nice, France

- 2009 Invited faculty, Imaging of thermal ablations, Society of Cardiovascular Magnetic Resonance, Miami, Florida.
- 2008 Invited faculty, Imaging of thermal ablations, Society of Cardiovascular Magnetic Resonance, Miami, Florida.
- 2009 Invited faculty, Guess that Artifact, ISMRM, Honolulu, Hawai'i.
- 2008 Invited faculty, Guess that Artifact, ISMRM, Toronto, CA
- 2007 Invited faculty, Radial Trajectory Design, Non-cartesian MRI workshop, Sedona, AZ

Regional

- 2011: Invited talk, MRI and Electrophysiology, Yale EP Cardiology Meeting
- 2011: Invited talk, Yale UCL Collaboration meeting.
- 2012: Invited Talk, Yale Department of Diagnostic Radiology, Grand Rounds
- 2016 Invited talk, YTRIC.
- 2016: Invited talk, Left atrial fibrosis imaging, Biomedical Engineering (Chair of BME's lab).
- 12/2016: Invited talk, Yale Digestive Diseases Seminar Series. Update on Liver MRI.

Formal Teaching

- 2008-2010 HST 563: Imaging Biophysics and Clinical Applications, MIT, Cambridge, MA
- 2005-2012 Basic MR Physics, Beth Israel Deaconess Medical Center, Boston, AM
- 2004-2012 Interventional MR, Non-invasive conference, Beth Israel, Boston, AM
- 2012 Cardiac MR, Teaching Radiology Fellows/residents, Yale New Haven Hospital
- 2015 Yale School of Medicine, Department of Diagnostic Radiology, Cross Sectional Imaging Fellowship Conference –8 Sessions on MRI (Fraction: 50% of class).
- 2016 Yale School of Medicine, Department of Diagnostic Radiology, Cross Sectional Imaging Fellowship Conference –8 Sessions on MRI (Fraction: 50% of class).
- 2016 Basic Cardiac MR—Lecture to Pediatric Radiology Residents Conference
- 2017 Yale School of Medicine, Department of Diagnostic Radiology, Cross Sectional Imaging Fellowship Conference –8 Sessions on MRI (Fraction: 50% of class).

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale:

International/National

1. **Peters DC**, Shaw JL, Hong-Zohlman S, Hagberg RC, Knowles BR, Manning WJ, Patients with histologically abnormal left atrial myocardium demonstrate greater left atrial enhancement by late gadolinium enhancement MR. Heart Rhythm 2012.
2. **Peters DC**, Knowles BR, Manning WJ, Respiratory bellows-gated left atrial late gadolinium enhancement, SCMR 2011.
3. **Peters DC**, Liu F, Tan A, Knowles BR, Duffy HS, Sorgente A, Witt AL, Josephson ME, Manning WJ, Transmurality mapping of left ventricular scar: impact of spatial resolution, SCMR 2011.
4. Shaw JL, Knowles BR, Manning WJ, **Peters DC**. Left atrial scar imaging using Dixon Late Gadolinium Enhancement, ISMRM 2011.
5. **Peters DC**, Josephson ME, Manning WJ. Early Cardiovascular magnetic resonance imaging predicts late scar formation in pulmonary vein isolation, ISMRM 2011.
6. Shaw JL, Hong-Zohlman S, Hagberg RC, Knowles BR, Manning WJ, **Peters DC**. Patients with histologically abnormal left atrial myocardium demonstrate greater left atrial enhancement by late gadolinium enhancement MR. ISMRM 2011.

7. **Peters DC**, Han Y, Appelbaum EA, Nezafat R, Goddu B, Kissinger KV, Manning WJ, Shaw JL. Towards refining the definition of grey zone for late gadolinium enhancement, SCMR 2010.
8. **Peters DC**, Taclas JE, Goldman A, Goddu B, Kissinger KV, Manning WJ. Pulmonary vein and left atrial changes during the cardiac cycle, pre and post pulmonary vein isolation. SCMR 2010.
9. Delling FN, **Peters DC**, Yeon SB, Kissinger KV, Goddu B, Manning WJ, Han Y, Cardiac magnetic resonance predictors of mitral regurgitation and papillary muscle fibrosis in mitral valve prolapse, SCMR 2010.
10. O'Connor AC, Hedjazi M, Hu P, **Peters DC**, Manning WJ, Nezafat R, Retrospective motion-adapted smart averaging for free-breathing cardiac MRI, ISMRM 2010 1246.
11. **Peters DC**, Nezafat R, Hu P, Han Y, Manning WJ, Comparison of Gd-BOPTA and Gd-DPTA late gadolinium enhancement for visualizing scar using surrogate for scar adjacent to blood, ISMRM 2010 1288.
12. Moghari MH, Hu P, Stoeck C, Smink J, **Peters DC**, Goddu B, Goepfert LG, Nezafat RN, Prospective projection-based respiratory whole-heart coronary MRI with patient-specific tracking, ISMRM 2010 3670.
13. **Taclas J**, Wylie JV, Nezafat R, Manning WJ, Josephson, ME, **Peters DC**. Correlation of left atrial scar due to pulmonary vein ablation with recorded ablation sites, SCMR, 2008; 2100.
14. Taclas JE, Wylie JV, Hauser TH, Manning WJ, Josephson ME, **Peters, DC**. Correlation and visualization of left atrial scar due to pulmonary vein ablation with recorded ablation sites. ISMRM 2008; 1042.
15. Peters DC, Herzka DA, Han Y, Nezafat R, Dokhan B, Manning WJ. 1RR Phase sensitive inversion recovery late gadolinium enhancement MRI. ISMRM 2009.
16. Peters DC, Hsing J, Kissinger KV, et al. T2-weighted imaging of the left atrium acutely after pulmonary vein isolation demonstrates wall thickening and edema. ISMRM 2009.
17. Taclas JE, Nezafat R, Woo JJ, Josephson ME, Manning WJ, **Peters DC**. Fusion of late gadolinium enhancement scar imaging with ablation sites by electroanatomic mapping: A pilot study. ISMRM 2009; 2531.
18. Santelli C, Nezafat R, Manning WJ, Kozerke S, **Peters DC**, Retrospective bellows-based reconstruction for cardiac MRI: Preliminary experience ISMRM 2010 5012.
19. **Peters DC**, Epstein FH, McVeigh ER, Functional cardiac MR Imaging, AIP Conf. Proc. **538**, 107 (2000).
20. Ishihara Y, Nezafat R, Wylie JV, Marius G. Linguraru MG, ME, Howe RD, Manning WJ, and **Peters DC**. MRI evaluation of RF ablation scarring for atrial fibrillation treatment. Proc. SPIE 6509, 65090Q (2007)
21. Woo J, **Peters DC**, Wylie JV, Nezafat R, Hauser TH, Josephson ME, Manning WJ, Correlation of left atrial voltage maps with cardiovascular MR provides evidence of pre-existent scar in atrial fibrillation patients, American Heart Association 2008.
22. Circumferential myocardial strain in cardiomyopathy with and without left bundle branch block Han, Y., Chan, J., Haber, I., **Peters, DC.**, Zimetbaum, P., Manning, W., Yeon, S. Journal of Cardiovascular Magnetic Resonance. 12 (1):, (2010).
23. Woo, JJ, **Peters DC**, Wylie JV, Hauser TH, Josephson ME, Manning WJ Recurrence of atrial fibrillation correlated with extent of post-ablation scar by comparison of pre- and post-ablation late gadolinium enhanced MR Imaging, RSNA 2008.
24. **Peters DC**, Goldfarb JW, Shaw JL, Manning WJ. Is Fat-suppression Necessary to Evaluate Remodeling in the Left Atrium with Late Gadolinium Enhancement?, ISMRM 2013, p 261.
25. **Peters DC**, Tam LK, Galiana G, Constable RT. Reducing Off-Resonance Artifacts in O-space Imaging. ISMRM 2013, p 3712.
26. Li S, Galiana G, Tam L, Kozerke S, Stockmann JP, Constable RT, **Peters DC**, Cardiac cine with ART for radial parallel imaging reconstruction. Journal of Cardiovascular Magnetic Resonance

- 2013:15 (Suppl 1): E34.
27. **Peters DC**, Manning WJ, Josephson ME, Duncan JS, Chelikani S, Comparison of Electroanatomic Voltage Mapping with Late Gadolinium Enhancement CMR. *Journal of Cardiovascular Magnetic Resonance* 2014, **16**(Suppl 1):P153 (16 January 2014)
 28. **Peters DC**, Mekonnen B, Atteya G, Marieb M, Mojibian H, Cornfeld, D. Left atrial remodeling by MRI: Comparison in patients with and without cardiovascular disease. 2014 SCMR Scientific Sessions. *Journal of Cardiovascular Magnetic Resonance* 2014, **16**(Suppl 1):P152 (16 January 2014)
 29. **Peters DC**, Alexander E, Duncan JS, Papademetris X, Cornfeld D, Sinusas AJ, Chelikani S. Correlation between Cine-derived Strain and Late Gadolinium Enhancement in the Left Atrium. ISMRM 2014, 3950.
 30. **Peters, DC**, Thorn S, Bregasi, A, Hawley, C, Stacy M, Sinusas, AJ Towards High-Resolution Fat-suppressed T1-mapping of Atrial Fibrosis in the Left Atrium: A Fit-free Three-point Method, *J Cardiovasc Magn Reson* v.17(Suppl 1); 2015 PMC4328894
 31. **Peters DC**, Bertelsen LK. Simulations for Determining the Optimal Enhancement Ratio Threshold for Segmentation of Left Atrial Fibrosis, SCMR/EuroCMR 2015 Joint Scientific Sessions, Nice, France, p.
 32. **Peters DC**, Diaz EJ, Bregasi A, Thorn SL, Stacy MR, Hawley C, Sinusas AJ. Left Atrial Function after Myocardial Infarction in Swine, SCMR/EuroCMR 2015 Joint Scientific Sessions, Nice, France, p.
 33. **Peters DC** Cornfeld D, Sinusas AJ, Duncan JS, Papademetris X, Grunseich K, Chelikani S. Left atrial strain is correlated with fibrosis by late gadolinium enhancement in an AF population. ISMRM 2015, 4469
 34. **Peters DC**, Thorn SL, Bregasi A, Diaz EJ, Stacy MR, Hawley C, Sinusas AJ. Alterations of left atrial function and substrate after myocardial infarction in relation to vulnerability for atrial fibrillation: a chronic porcine study. ISMRM 2015, 2709.
 35. Wang H, Tam L, Kopanglu E, **Peters DC**, Galiana G, Constable RT. Improve O-Space Imaging Using High-Resolution Oversampled Data Acquisitions, ISMRM 2015, 656.
 36. Grunseich, K; Mekonnen, B; Simprini, LA, Mojibian, H; Marieb, M; Atteya, G; Cornfeld, D; **Peters, DC**. Left Atrial Volume, Congestive Heart Failure, and Obesity are Associated with Extent of Left Atrial Fibrosis by Late Gadolinium Enhancement SCMR/EuroCMR 2015 Joint Scientific Sessions, P 368
 37. Grunseich, Karl; **Peters, Dana C.**; Sinusas, Albert J.; Mojibian, Hamid; Marieb, Mark; Cornfeld, Daniel; Simprini, Lauren A. Left Atrial Late Gadolinium Enhancement and Mitral Regurgitation in Subjects with Atrial Fibrillation SCMR/EuroCMR 2015 Joint Scientific Sessions, P 358
 38. **Peters DC**, Huber S, Mojibian H, Hu C. T1 estimation from 3D late gadolinium enhancement: Application to left atrial LGE. MR Angio club, Cincinnati, Ohio, 2015.
 39. Grunseich, Karl; Baldassarre, Lauren A.; Mojibian, Hamid; Marieb, Mark; Cornfeld, Daniel; **Peters, Dana C**. Left Atrial Volume, Relationship between Ventricular Diastolic Dysfunction and Atrial Fibrosis: a study of phasic left ventricular and atrial volumes, and atrial late gadolinium enhancement, MR Angio Club, 2015, Cincinnati, Ohio.
 40. Kopanoglu E, Galiana G, Haifeng W, **Peters DC**, Constable RT, Accelerated imaging of sub-volumes using region-of-interest focused O-Space: Experimental verification of rOi-Space. ISMRM 2016.
 41. **Peters, Dana C.**, Bertelsen, Litten, Caroline, Ita, Chelikani, Sudhakar. Atrial fibrosis segmentation thresholds: a theoretical and empirical study. SCMR 2016, Los Angeles, CA.
 42. **Peters, Dana C**, Duncan, James S., Grunseich, Karl, Marieb, Mark. Cornfeld, Daniel; Sinusas, Albert J. Chelikani, Sudhakar. Lower Left Atrial Strain in the Presence of Regional Atrial Fibrosis: An MRI Study of Patients with Atrial Fibrillation. SCMR 2016, Los Angeles, CA.

43. Hu C, Sinuas AJ, Huber S, Baldassare L, Mojibian H, **Peters DC**. T1-refBlochi: High Resolution 3D Cardiac T1 Mapping Methods Based on 3D Late Gadolinium Enhancement, Bloch Equations, and a Reference T1. Society of Magnetic Resonance Angiography, 28th Annual Conference, Chicago, IL, 2016.
44. Hu C, Huber S, Qiu M, Galiana G, **Peters DC**. REPAIR: Improving Late Gadolinium Enhancement Images Under Arrhythmia by RR Dependent Pre-saturation. Society of Magnetic Resonance Angiography, 28th Annual Conference, Chicago, IL, 2016.
45. Hu C, Sinuas AJ, Huber S, Baldassare L, Mojibian H, **Peters DC** T1-refBlochi: High resolution 3D cardiac T1 mapping methods based on 3D late gadolinium enhancement, Bloch equations, and a reference T1. Accepted SCMR 2017.
46. Peters DC, Baldassare L, Huber S, Mojibian H, Marieb, MA, Grunseich K. A fast semi-quantitative assessment of atrial fibrosis strongly correlates to fully quantitative segmentation. Accepted SCMR 2017.
47. Hu C, Mojibian H, Peters DC. Cardiac motion-insensitive black-blood TSE based on reverse double inversion and diastolic preparation. Accepted SCMR 2017.
48. Hu C, Huber S, Mojibian H, Galiana G, Qiu M, **Peters DC**. Arrhythmia insensitive LGE with REPAIR: stabilizing variable signal regrowth by variable flip angles. Accepted SCMR 2017.
49. Hu C, Parulji N, Lu H, Papademetris X, Duncan JS, Peters DC. 3D left atrial strain imaging based on multi-slice radial cine and feature tracking, submitted to ISMRM 2017.
50. Hu C, Peters DC, SUPER: a novel acquisition and reconstruction strategy for improved efficiency and resolution in parameter mapping, submitted to ISMRM 2017.
51. Peters DC, Hu C, Wan Y, Qiu, M, Investigation of Simultaneous Multi-slice Imaging Utilized for Respiratory Gating: A Golden Angle Radial CAIPI Free-Breathing Cine Method, submitted to ISMRM.
52. Goldfarb JW, Reichek N, Cao J, Peters DC. Effects of a Gadolinium Based Contrast Agent on the Myocardial R2* Relaxation Rate in Patients with Chronic Myocardial Infarction, submitted to ISMRM 2017.

Professional Service

Peer Review Groups/Grant Study Sections: (list from most recent to earliest)

2017	Member, Radiology and Surgery	American Heart Association
2016	Member, Radiology and Surgery	American Heart Association
2014	Ad hoc Grant Reviewer	7 th Ontario Research Fund competition
2014	Ad hoc Grant Reviewer	Medical Research Council (UK)
2013	Member, SEP ZHL1 CCT-Q	NHLBI, NIH
2011	Ad hoc Grant Reviewer	Wellcome Trust
2009	Ad hoc Challenge Grant Reviewer	NIH
2002	Ad hoc Grant Reviewer	Whitaker Foundation

Journal Service:

Guest Editor (2017--)

Journal of Cardiovascular Magnetic Resonance

Editorial Board, Member (2017--)

Journal of Cardiovascular Magnetic Resonance

Reviewer :

2000-Present

Magnetic Resonance in Medicine

Journal of Magnetic Resonance Imaging

IEEE Transactions on Medical Imaging

2008-Present:

Journal of the American College of Cardiology-Cardiovascular Imaging

IEEE Transactions on Medical Imaging

Radiology

Circulation, Circulation Imaging, Circulation Arrhythmia and Electrophysiology

Journal of Cardiovascular Magnetic Resonance

Journal of the American College of Cardiology

Heart Rhythm

Journal of the American College of Cardiology-Cardiovascular Imaging

Medical Physics

Abstract Reviewer: ISMRM 2005-2016, SCMR 2011-2016.

2016 Journal of Nuclear Medicine

2016 Medical Image Analysis

2014 External Thesis Examiner for PhD Candidate, Martin Rajchl, Aug 8 2014, Robarts Imaging Centre. Rapid Segmentation Techniques for Cardiac and Neuro- Image Analysis.

National and International Collaborations:

2015 Litten Bertelsen, Visiting scientist from Copenhagen University Hospital , Copenhagen Denmark.

2014-2016, Maria Drangova, Robarts Research Institute, Ottawa, CA.

2016, James Goldfarb, St. Francis Hospital, Long Island, New York.

2017, Felicia Seemann, Lund University, Lund, Sweden.

Professional Service for Professional Organizations: (list from most recent to earliest)

2017-- Member, ISMRM Annual Program Committee Meeting

2015-2017 Member, SCMR Education Committee

2014-2017 Member, ISMRM Young Investigator Award Subcommittee

2015 Moderator, MR Angio Club: Cardiovascular Imaging.

2008-2013 Member, Heart Rhythm

1995-Present Member, International Society of Magnetic Resonance in Medicine

2003-Present Member, Society for Cardiovascular Magnetic Resonance

2010-2012 Member, ISMRM Sustainability Committee

2008-2009 Member, Cardiac MR Operations, Beth Israel Deaconess Medical Center, Boston

2008-2009 Biomatrix Mentor, MIT, Cambridge, MA

- 2005-2007 Member, Center for Faculty Development, PhD Subcommittee
2000-2005 Member, American Association for Physicists in Medicine

Yale University Service:

- 2013-2014 Yale Magnetic Resonance Research Center Tour coordinator, for resident applicants.
2015 Bioimaging Sciences Retreat Committee, Member.

Mentor: Yale Hackathon, 2017: Theme: Re-engineering Patient Experience and Provider Engagement

Public Service:

Participant, Summer Science Research Institute: High School Mentor for
Edgar Diaz, Summer 2014-2015.
Ita Caroline, Summer 2015.

Google Scholar h index = 30, cited 3300

Bibliography:

Peer-reviewed Original Research

1. Polzin JA, Korosec FR, Wedding KL, Grist TM, Frayne R, **Peters DC**, Mistretta CA, Effects of through-plane myocardial motion on phase-difference and complex-difference measurements of absolute coronary artery flow, *J Magn Resonan Imaging*. **1**,113 (1996).
2. Grist TM, Korosec FR, **Peters DC**, Witte S, Walovitch RC, Dolan RP, Bridson WE, Yucel EK, Mistretta CA, Steady State and dynamic MR angiography with MS-325: Initial experience in humans, *Radiology*. **207**, 539 (1998).
3. Wedding KL, Grist TM, Folts JD, Maleej N, Vigen KK, **Peters DC**, Osman H, Mistretta CA, Coronary flow and flow reserve in canines using MR phase difference and complex difference processing, *Magn Resonan Med*. **39**, 656 (1998).
4. Mistretta CA, Grist TM, Korosec FR, Frayne R, **Peters DC**, Mazaheri Y, Carroll TJ, 3D Time-resolved contrast-enhanced MR DSA: Advantages and tradeoffs, *Magn Resonan Med*. **40**, 571 (1998).
5. **Peters DC**, , Korosec FR, Grist TM, Block WF, Holden JE, Vigen KK, Mistretta CA, Undersampled projection reconstruction applied to MR angiography, *Magn Resonan Med*. **41**, 99 (2000).
6. Vigen KK, **Peters DC**, Grist TM, Block WF, Mistretta CA, Undersampled projection imaging for time-resolved contrast-enhanced 3D MR angiography (PR-TRICKS), *Magn Resonan Med*. **41**, 170 (2000).
7. Barger AV, **Peters DC**, Block WF, Vigen KK, Korosec FR, Grist TM, Mistretta CA, Phase-contrast with interleaved undersampled projections, *Magn Resonan Med.*, **43**, 503 (2000).
8. Frayne R, Grist TM, Swann JS, **Peters DC**, Korosec FR, Mistretta CA, 3D MR DSA: Effects of injection protocol and image masking, *J Magn Resonan Imaging*, **12**, 476-487 (2000).

9. **Peters DC**, Epstein FH, McVeigh ER, Myocardial wall motion imaging with undersampled projection reconstruction, *Magn Resonan Med.*, **45**, 562-567 (2001).
10. Epstein FH, London JH, **Peters DC**, Gonclaves LM, Agyeman K, Taylor J, Balaban RS, Arai AE, Multislice first-pass cardiac perfusion MRI: Validation in a model of myocardial infarction *Magn Resonan Med.*,**47**, 482-491 (2002).
11. Lederman RJ, Guttman MA, **Peters DC**, Thompson RB, Sorger JM, Dick AJ, Raman VK, McVeigh ER. Catheter-based endomyocardial injection using real-time magnetic resonance imaging. *Circulation*, **105**, 1282-1284 (2002).
12. **Peters DC**, Ennis DB, McVeigh ER. High resolution SSFP imaging of the heart wall with projection reconstruction, *Magn Resonan Med*, **48**, 82-88 (2002).
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