

## CURRICULUM VITAE

**Name:** Peter Anthony Bandettini

**Current Employment:** Chief: Section on Functional Imaging Methods,  
Laboratory of Brain and Cognition, NIMH  
Director: Functional MRI Facility, NIMH/NINDS  
Director: Center for Multimodal Neuroimaging, NIMH

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**Education:** 1989 B.S., Physics, Marquette University  
1994 Ph.D., Medical College of Wisconsin

**Ph.D. Dissertation Title:** Magnetic Resonance Imaging of Human Brain  
Activation using Endogenous Susceptibility Contrast.  
Co-advisors: R. Scott Hinks, James, S. Hyde

**Postgraduate Training:** 1994-96 MGH-NMR Center / Harvard Medical  
School, Boston, MA  
Supervisors: Bruce Rosen & Jack Belliveau

**Other Employment:** 1996-98 Assistant Professor, Medical College of  
Wisconsin, Biophysics Research Institute

**Awards, Honors:** 1984-88 Marquette University Academic Scholarship.  
1984-88 Marquette University Athletic Scholarship.  
1987 National Science Foundation Fellowship.  
1989 MCW Research Fellowship.  
1990 McCahill award for Academic and Athletic  
Leadership at Marquette University  
2001 Wiley/OHBM Young Investigator Award

2001,7,15	NIMH Directors Award
2013	NIMH Outstanding Mentor Award
2015	ISMRM Fellow of the Society

**Memberships in Professional Societies:**

International Society of Magnetic Resonance in Medicine (ISMRM)  
 Organization for Human Brain Mapping (OHBM)  
 Society for Neuroscience (SFN)

**Professional Activities:**

*Journal Activity*

Editor-in-Chief: NeuroImage (2011-2017)

Associate Editor:

Human Brain Mapping (2003 – 2011)  
 NeuroImage (2005-2011)  
 SciTopics (2008-2011)

Editorial Board:

NeuroImage (2000 – 2005)  
 Magnetic Resonance in Medicine (2004 – 2014)  
 Journal of Integrative Neuroscience (2008 – 2016)  
 International Journal of Imaging Systems and Technology (2010 – present)

*Meeting, Organization, and Society Activity*

- Organization For Human Brain Mapping

Council:

- Secretary 1999-2001.
- President 2005-2007.
- Meetings Liaison/Program Chair 2011.

Program Committee:

- Copenhagen '97
- Düsseldorf '99
- San Antonio '00
- Brighton '01
- *Chair*: Sendai '02, Seattle '13
- New York '03

- Budapest '04
- Toronto '05
- Florence '06
- Chicago, '07
- Beijing, '12
- Seattle, '13
- Hamburg, '14

Education Committee:

- *Chair* San Antonio 2000 and Brighton 2001.

Nominating Committee:

- *Chair* San Antonio 2000

Scientific Advisory Board

- *Chair-Elect* Vancouver 2016-17
- *Chair* Singapore 2017-18

- International Society for Magnetic Resonance in Medicine

Young Investigator Award Committee (2001, 2)

Program Committee (2007-2010)

Education Committee (2007-2010)

- Faculty of Parmenides Foundation (2007-present)
- Primary organizer: ISMRM-sponsored High Field Workshop, Lake Louise, CA (2011)
- Co-organizer: Joint ISMRM/OHBM virtual workshop (2012).

### *Advisory Activity*

Member of external advisory committee for:

The National fMRI Database Center, Dartmouth College (1999-2003)

The Center for Functional MRI, University of California, San Diego (2002-present)

Georgetown University fMRI Center (2006-2009)

Johns Hopkins Research Resource for Quantitative fMRI (2008 – present)

GE Medical Systems Head-Only Scanner Development (2009-present)

Developmental Connectome Genomics Center, MIND Institute, Albuquerque, NM (2016-present)

Duke University Brain Project (2016)

Medical University of South Carolina, Charleston, SC. (2016)

Ph.D. Thesis Committee for:

Rongyan Zhang, Medical College of Wisconsin (1996)

Rasmus Birn, Medical College of Wisconsin (1998)

Ziad Saad, Marquette University (1998)

Anthony Liu, University of Texas, San Antonio (2000)  
John Agnew, Georgetown University (2003)  
Hanbing Lu, Medical College of Wisconsin (2003)  
Martyn Klassen, University of London, Ontario (2005)  
Kathy Nangini, University of Toronto, Ontario (2006)  
Mark Chevillet, Georgetown University (2011)  
Marieke Mur, Maastricht University (2011)  
Evan Gordan, Georgetown University (2012)  
Nathan Churchill, University of Toronto, Ontario (2013)  
Andrew Breeden, Georgetown University (2017)  
Kyle Shattuck, Georgetown University (2017)  
Zhan Xu, Medical College of Wisconsin (2018)

Students:

Natalia Petridou, George Washington University (1999-2005)  
Prantik Kundu, Cambridge University (2010-2013)  
Raphael Kaplan, University College, London (2010-2013)  
Adam Thomas, Oxford University (2009-2014)  
Jacob Levenstein, Oxford University, Oxford (2016-present)

Post Docs:

James Patterson (1999-2001)  
Rasmus Birn (2000-2004)  
Ziad Saad (2001-2003)  
Patrick Bellgowan (2001-2004)  
Hauke Heekeren (shared with Leslie Ungerleider) (2002-2005)  
David Knight (2002-2006)  
Marta Marion (2003-2006)  
Anthony Boemio (2003-2007)  
Kevin Murphy (2004-2008)  
Nikolaus Kriegeskorte (2004-2008)  
Dan Handwerker (2007-2012)  
Masaya Misaki (2008 – 2012)  
Javier Gonzalez-Castillo (2009-2013)  
Jennifer Evans (2009-2014)  
Carlton Chu (2009-2012)  
Hang-Joon Jo (2012-2015)  
Prantik Kundu (2014)  
David Jangraw (2014-2018)  
Laurentius Huber (2015-present)  
Yuhui Chai (2016-present)  
Emily Finn (2017-present)

**Below are the three 20-25 page research summaries from my lab since 1999.**

[BSC Review Document for UFIM 2003](#)

[BSC Review Document for SFIM 2007](#)

[BSC Review Document for SFIM 2012](#)

[BSC Review Document for SFIM 2016](#)

**Below are the three 20-25 page summaries from the fMRI Core Facility since 2012.**

[BSC Review Document for FMRF 2006](#)

[BSC Review Document for FMRF 2011](#)

[BSC Review Document for FMRF 2015](#)

## Papers

According to [Google Scholar](#) (total citations = 30507, h-index = 81, i10-index 159)

1. D. M. Nielson, F. Pereira, C. Y. Zheng, N. Migenishvili, J. A. Lee, A. D. Thomas, P. A. Bandettini, Detecting and harmonizing scanner differences in the ABCD study-annual release 1.0, bioRxiv: 309260 (2018).
2. P. McClure, C. Zheng, F. Pereira, J. Kaczmarzyk, J. Rogers-Lee, D. Nielson, P. Bandettini, Parallel weight consolidation: A brain segmentation case study, arXiv preprint: 1805.10863 (2018).
3. P. Kundu, B. Benson, D. Rosen, S. Frangou, E. Leibenluft, W.-M. Luh, P. A. Bandettini, D. S. Pine, M. Ernst, The integration of functional brain activity from adolescence to adulthood, *Journal of Neuroscience*, 30 (14), pp. 3559-3570 (2018)
4. H. Xie, J. Gonzalez-Castillo, D. A. Handwerker, P. A. Bandettini, V. D. Calhoun, G. Chen, E. Damaraju, X. Liu, S. Mitra, Time-varying whole-brain functional network connectivity coupled to task engagement, *Network Neuroscience*, pp. 1-37 (2018) [https://doi.org/10.1162/NETN\\_a\\_00051](https://doi.org/10.1162/NETN_a_00051)
5. L. Huber, H. Y. Desmond, C. J. Wiggins, K. Uludag, S. Kashyap, D. C. Jangraw, P. A. Bandettini, B. A. Poser, D. Ivanov, Ultra-high resolution blood volume fMRI and BOLD in humans at 9.4T: Capabilities and challenges, *NeuroImage*, 178, pp. 769-779 (2018).
6. S. Torrisi, G. Chen, P. A. Bandettini, C. I. Baker, R. Reynolds, J. Y.-T. Liu, J. Leshin, N. Balderston, C. Grillon, M. Ernst, Statistical power comparisons at 3T and 7T with a GO/NOGO task, *NeuroImage*, 175, pp. 100-110 (2018).
7. E. S. Finn, P. R. Corlett, G. Chen, P. A. Bandettini, R. T. Constable, Trait paranoia shapes inter-subject synchrony in brain activity during an ambiguous social narrative, *Nature Communications*, 9, article 2043 (2018).
8. M. Saggat, O. Sporns, J. Gonzalez-Castillo, P. A. Bandettini, G. Carlsson, G. Glover, A. L. Reiss, Towards a new approach to visualize and quantify brain's dynamical organization using topological data analysis, *Nature Communications*, 9, article 1399 (2018).
9. J. D. Power, M. Pitt, S. J. Gotts, P. Kundu, V. Voon, P. A. Bandettini, A. Martin, Ridding fMRI data of motion-related influences: removal of signals with distinct spatial and physical bases in multi-echo data, *Proceedings of the National Academy of Sciences*, (2018) <https://doi.org/10.1073/pnas.1720985115>

10. Y. Chai, J. Sheng, P. A. Bandettini, J.-H. Gao, Frequency-dependent tACS modulation of BOLD signal during rhythmic visual stimulation, *Human Brain Mapping*, DOI: 10.1002/hbm.23990 (2018).
11. D. C. Jangraw, J Gonzalez-Castillo, D. A. Handwerker, M. Ghane, M. D. Rosenberg, P. Panwar, P. A. Bandettini, A functional connectivity-based neuromarker of sustained attention generalizes to predict recall in a reading task, *NeuroImage*, 166, pp. 99-109 (2018).
12. L. Huber, D. A. Handwerker, D. C. Jangraw, G. Chen, A. Hall, C. Stuber, J. Gonzalez-Castillo, D. Ivanov, S. Marrett, M. Guidi, J. Goense, B. A. Poser, P. A. Bandettini, High-resolution CBV-fMRI allows mapping of laminar activity and connectivity of cortical input and output in human M1, *Neuron*, 96(6), pp. 1253-1267 (2017)
13. S. Keilholz, C. Caballero-Gaudes, P. Bandettini, G. Deco, V. Calhoun, Time resolved resting state functional magnetic resonance imaging analysis: current status, challenges, and new directions, *Brain Connectivity* 7 (8), 465-481 (2017).
14. J. D. Power, M. Plitt, P. Kundu, P. A. Bandettini, A. Martin, Temporal interpolation alters motion in fMRI scans: Magnitudes and consequences for artifact detection, *PLoS one* 12 (9), e0182939 (2017).
15. J. Gonzalez-Castillo, P. A. Bandettini, Task-based dynamic functional connectivity: recent findings and open questions, *NeuroImage* (in press) <https://doi.org/10.1016/j.neuroimage.2017.08.006> (2017).
16. H. Xie, V. Calhoun, J. Gonzalez-Castillo, E. Damaraju, R. Miller, P. Bandettini, S. Mitra, Whole brain connectivity dynamics reflect both task-specific and individual-specific modulation: a multitask study, *NeuroImage*, (in press) <https://doi.org/10.1016/j.neuroimage.2017.05.050> (2017).
17. J. Degryse, R. Seurinck, J. Durnez, J. Gonzalez-Castillo, P. A. Bandettini, B. Moerkerke, Introducing alternative-based thresholding for defining functional regions of interest in fMRI, *Frontiers in Neuroscience*, 11, doi: 10.3389/fnins.2017.00222, (2017).
18. P. Kundu, V. Voon, P. Balchandani, M. V. Lombardo, B. A. Poser, P. Bandettini, Multi-Echo fMRI: A Review of Applications in fMRI Denoising and Analysis of BOLD Signals, *NeuroImage* 154, pp. 59-80 (2017).
19. S. M. Kazan, L. Huber, G. Flandin, D. Ivanov, P. Bandettini, N. Weiskopf, Physiological basis of vascular autocalibration (VasA): Comparison to hypercapnia calibration methods. *Magnetic Resonance in Medicine*, 78(3), pp. 1168-1173 (2017)

20. L. Huber, D. Ivanov, D. A. Handwerker, S. Marrett, M. Guidi, K. Uludag, P. A. Bandettini, B. A. Poser, Techniques for blood volume fMRI with VASO: From low-resolution mapping towards sub-millimeter layer-dependent applications. *NeuroImage*, 164, pp. 131-143 (2018).
21. J. Gonzalez-Castillo, P. Panwar, L. C. Buchanan, C. Caballero Gaudes, D. A. Handwerker, D. C. Jangraw, V. Zachariou, S. Inati, V. Roopchansingh, P. A. Bandettini, Evaluation of multi-echo ICA denoising for task based fMRI studies: block designs, rapid event-related designs, and cardiac-gated fMRI. *NeuroImage*, 141, 452-468 (2016).
22. J. Gonzalez-Castillo, G. Chen, T. Nichols, R. W. Cox, P. A. Bandettini, Variance decomposition for single-subject task-based fMRI activity estimates across many sessions. *NeuroImage*, 154, pp. 206-218, (2017).
23. M. Mur, M. Meys, J. Bodurka, R. Goebel, P. A. Bandettini, N. Kriegeskorte, Human object-similarity judgments reflect and transcend the primate-IT object representation. *Frontiers in Psychology*, 4, MAR (2013)
24. H. J. Jo, S. J. Gotts, R. C. Reynolds, P. A. Bandettini, A. Martin, R. W. Cox, Z. S. Saad, Effective preprocessing procedures virtually eliminate distance-dependent motion artifacts in resting state fMRI. *Journal of Applied Mathematics*, 2013, Article # 935154 (2013).
25. Z. Yang, X.-N. Zuo, K. L. McMahon, R. C. Craddock, C. Kelly, G. I. De Zubicaray, I. Hickie, P. A. Bandettini, F. X. Castellanos, M. P. Milham, M. J. Wright, Genetic and Environmental Contributions to Functional Connectivity Architecture of the Human Brain, *Cerebral Cortex*, 26, pp. 2341-2352 (2016).
26. J. Gonzalez-Castillo, P. A. Bandettini, What cascade spreading models can teach us about the brain, *Neuron*, 86, pp. 1327-1329 (2015).
27. J. Gonzalez-Castillo, C. W. Hoy, D. A. Handwerker, M. E. Robinson, L. C. Buchanan, Z. S. Saad, P. A. Bandettini, Tracking ongoing cognition in individuals using brief whole-brain functional connectivity patterns. *Proc. Natl. Acad. Sci.* 12, pp. 8762-8767 (2015).
28. J. W. Evans, P. Kundu, S. G. Horovitz, P. A. Bandettini, Separating slow BOLD from non-BOLD baseline drifts using multi-echo fMRI. *NeuroImage*, 105, pp. 189-197, (2015).
29. P. Kundu, B. E. Benson, K.L. Baldwin, D. Rosen, W. M. Luh, P. A. Bandettini, M. Ernst, Robust resting state fMRI processing for studies on typical brain development based on multi-echo EPI acquisition, *Brain Imaging Behav*, 9, pp. 56-73 (2015), doi: 10.1007/s11682-014-9346-4.

30. V. Olafsson, P. Kundu, E. C. Wong, P. A. Bandettini, T. T. Liu, Enhanced identification of BOLD-like components with multi-echo simultaneous multi-slice (MESMS) fMRI and multi-echo ICA, *NeuroImage*, 112, pp. 43-51 (2015).
31. P. Wu, P. A. Bandettini, R. M. Harper, D. A. Handwerker, Effects of thoracic pressure changes on MRI signals in the brain, *Journal of Cerebral Blood Flow and Metabolism*, 35, pp. 1024-1032 (2015).
32. L. Kenworthy, G. L. Wallace, R. Birn, S. C. Milleville, L. K. Case, P. A. Bandettini, A. Martin, Aberrant neural mediation of verbal fluency in autism spectrum disorders. *Brain Cogn.* 83, pp. 218-226 (2013).
33. Z. Yang, Z. Huang, J. Gonzalez-Castillo, R. Dai, G. Northoff, P. Bandettini, Using fMRI to decode true thoughts independent of intention to conceal. *NeuroImage*, 99, pp. 80-92 (2014).
34. P. A. Bandettini, Neuronal or Hemodynamic? Grappling with the functional MRI signal, *Brain Connectivity*, 4, (7), p.p. 487-498 (2014). .
35. R. Kaplan, D. Bush, M Bonnefond, P. A. Bandettini, G. R. Barnes, C. F. Doeller, N. Burgess, Medial Prefrontal Theta Phase Coupling During Spatial Memory Retrieval, *Hippocampus*, 24, pp. 656-665 (2014).
36. P. Kundu, M. D. Santin, P. A. Bandettini, E. T. Bullmore, A. Petiet, Differentiating BOLD and non-BOLD signals in fMRI time series from anesthetized rats using multi-echo EPI at 11.7T, *NeuroImage*, 102, pp. 861-874 (2014).
37. A. G. Thomas, A. Dennis, N. B. Rawlings, C. J. Stagg, L. Matthews, M. Morris, S. H. Kolind, S. Foxley, M. Jenkinson, T. Nichols, H. Dawes, P. A. Bandettini, H. Johansen-Berg, Multi-modal characterization of rapid anterior hippocampal volume increase associated with aerobic exercise, *NeuroImage*, 131, pp. 162-170 (2016)
38. J. Gonzalez-Castillo, C. W. Hoy, D. A. Handwerker, V. Roopchansingh, S. J. Inati, Z. S. Saad, R. W. Cox, P. A. Bandettini, Task dependence, tissue specificity and spatial distribution of widespread activations in large single-subject functional MRI datasets at 7T, *Cerebral Cortex*, 2014 doi:10.1093/cercor/bhu148
39. Z. Yang, Y. Xu, C. W. Hoy, D. A. Handwerker, G. Chen, G. Northoff, X.-N. Zuo, P. A. Bandettini, Brain Network Informed Subject Community Detection In Early-Onset Schizophrenia, *Scientific Reports*, 4 : 5549 | DOI: 10.1038/srep05549 (2014)
40. J. Gonzalez-Castillo, D. Handwerker, M.E. Robinson, C.W. Hoy, L.C. Buchanen, Z.S. Saad, and P.A. Bandettini, The spatial structure of resting state connectivity stability on the scale of minutes, *Frontiers in Neuroscience*, 8:138. doi:10.3389/fnins.2014.00138 (2014)

41. R. Kaplan, A. J. Horner, P. A. Bandettini, C. F. Doeller, N. Burgess, Human hippocampal processing of environmental novelty during spatial navigation, *Hippocampus*, pp. 740-750 (2014).
42. Z. Yang, P. Wu, P. A. Bandettini, X. Weng, The cerebellum engages in automation of verb-generation skill, *Journal of Integrated Neuroscience* Volume 13, pp. 1-17 (2014).
43. A. Devor, P. A. Bandettini, D. A. Boas, J. M. Bower, R. B. Buxton, L. B. Cohen, A. M. Dale, G. T. Einevoll, P. T. Fox, M. A. Franceschini, K. J. Friston, J. G. Fujimoto, M. A. Geyer, J. H. Greenberg, E. Halgren, M. S. Hamalainen, F. Helmchen, B. T. Hyman, A. Jasanoff, T. L. Jernigan, L. L. Judd, S.-G. Kim, D. Kleinfeld, N. J. Kopell, M. Kutas, K. K. Kwong, M. E. Larkum, E. H. Lo, P. J. Magistretti, J. B. Mandeville, E. Masliah, P. P. Mitra, W. C. Mobley, M. A. Moskowitz, A. Nimmerjahn, J. H. Reynolds, B. R. Rosen, B. M. Salzberg, C. B. Schaffer, G. A. Silva, P. T. C. So, N. C. Spitzer, R. B. Tootell, D. C. Van Essen, W. Vanduffel, S. A. Vinogradov, L. L. Wald, L. V. Wang, B. Weber, A. G. Yodh, The challenge of connecting the dots in the B.R.A.I.N., *Neuron*, 80, pp. 270-274, (2013).
44. Z. Yang, C. Chang, T. Xu, L. Jiang, D. Handwerker, F. X. Castellanos, M. Milham, P. Bandettini, X.-N. Zuo, Connectivity Trajectory across Lifespan Differentiates the Precuneus from the Default Network, *NeuroImage*, 89, pp. 45-56 (2014) .
45. R. M. Hutchison, T. Womelsdorf, E. A. Allen, P. A. Bandettini, V. D. Calhoun, M. Corbetta, S. D. Penna, J. H. Duyn, G. H. Glover, J. Gonzalez-Castillo, D. A. Handwerker, S. Keiholz, V. Kiviniemi, D. A. Leopold, F. de Pasquale, O. Sporns, M. Walter, C. Chang, Dynamic functional connectivity: promise issues, and interpretations. *NeuroImage*, 80, pp. 360-378 (2013).
46. P. Kundu, N. D. Brenowitz, V. Voon, Y. Worbe, P. E. Vertes, S. J. Inati, Z. S. Saad, P. A. Bandettini, E. T. Bullmore, An Integrated Strategy for Improving Functional Connectivity Mapping Using Multi-Echo EPI, *PNAS*, 110, pp. 16187-16192 (2013).
47. K. Murphy, R. M. Birn, P. A. Bandettini, Resting state fMRI confounds and cleanup, *NeuroImage*, 80, pp. 349-359 (2013).
48. P. A. Bandettini, P. Kundu, J. Gonzalez-Castillo, M. Misaki, P. Guillod, Characterizing and Utilizing fMRI Fluctuations, Patterns, and Dynamics, *Progress in Biomedical Optics and Imaging – Proceedings of SPIE* Vol 8672, doi: 10.1117/12.2012737 (2013).
49. M. Misaki, W.-M. Luh, P. A. Bandettini, The effect of spatial smoothing on fMRI decoding of columnar-level organization with linear support vector machine. *Journal of Neuroscience Methods*, 212, pp. 355-361 (2013)

50. P. A. Bandettini, The BOLD plot thickens: sign- and layer-dependent hemodynamic changes with activation. *Neuron* 76, pp. 468-469 (2012).
51. M. Misaki, W.-M. Luh, P. A. Bandettini, Accurate decoding of sub-TR timing differences in stimulations of sub-voxel regions from multi-voxel response patterns. *NeuroImage*, 66, pp. 623-633 (2013).
52. A. G. Thomas, A. Dennis, P. A. Bandettini, H. Johansen-Berg, The effects of aerobic activity on brain structure. *Frontiers in Psychology*, 3, pp. 1-9 (2012)
53. R. Kaplan, C. F. Doeller, G. R. Barnes, V. Litvak, E. Duzel, P. A. Bandettini, N. Burgess, Movement-related theta rhythm in humans: coordinating self-directed hippocampal learning. *PLoS Biology*, 10, e1001267 (2012)
54. Z. Yang, X.-N. Zuo, P. Wang, Z. Li, S. M. LaConte, P. A. Bandettini, X. P. Hu, Generalized RAICAR: Discover homogeneous subject (sub)groups by reproducibility of their intrinsic connectivity networks, *NeuroImage* 63, pp. 403-414 (2012).
55. M. Mur, D. A. Ruff, J. Bodurka, P. De Weerd, P. A. Bandettini, N. Kriegeskorte, Categorical, yet graded single-image activation profiles in human category-selective cortical regions, *The Journal of Neuroscience*, 32, pp. 8649-8662 (2012)
56. W.-M. Luh, S. L. Talagala, T.-Q. Li, P. A. Bandettini, Pseudo-continuous arterial spin labeling at 7T for human brain: estimation and correction for off-resonance effects using a prescan, *Magn. Reson. Med.* 69, pp. 402-410 (2013)
57. P. A. Bandettini, Twenty years of Functional MRI: The Science and the Stories. *NeuroImage* 62, pp. 575-588 (2012)
58. J. Gonzalez-Castillo, K. N. Duthie, Z. S. Saad, C. Chu, P. A. Bandettini, W.-M. Luh, Effects of image contrast on functional MRI image registration. *NeuroImage*, 67, pp. 163-174 (2013).
59. D. A. Handwerker, J. Gonzalez-Castillo, M. D'Esposito, P. A. Bandettini, The continuing challenge of understanding and modeling hemodynamic variation in fMRI. *NeuroImage* 62, pp. 620-631 (2012).
60. M. Misaki, G. L. Wallace, N. Dankner, A. Martin, P. A. Bandettini, Characteristic cortical thickness patterns in adolescents with autism spectrum disorders: Interactions with age and intellectual ability revealed by canonical correlation analysis. *NeuroImage* 60, pp. 1890-1901 (2012)
61. P. A. Bandettini, Functional MRI: a confluence of fortunate circumstances. *NeuroImage* 61, pp. A3-A11 (2012)

62. P. Kundu, S. J. Inati, J. W. Evans, W.-M. Luh, P. A. Bandettini, Differentiating BOLD and non-BOLD signals in fMRI time series using multi-echo EPI. *NeuroImage* 60, pp. 1759-1770 (2012)
63. P. A. Bandettini, E. C. Wong, Sewer pipe, wire, epoxy, and finger tapping: the start of fMRI at the Medical College of Wisconsin. *NeuroImage* 62, pp. 620-631 (2012).
64. D. A. Handwerker, V. Roopchansingh, P. A. Bandettini, Periodic changes in brain connectivity, *NeuroImage* 63, pp. 1712-1719 (2012)
65. C. Chu, A.-L. Hsu, K.-H. Chou, P. Bandettini, C.-P. Lin, Does feature selection improve classification accuracy? Impact of sample size and feature selection on classification using anatomical magnetic resonance images. *NeuroImage* 60, pp. 59-70 (2012)
66. J. Gonzalez-Castillo, Z. Saad, D. A. Handwerker, S. J. Inati, N. Brenowitz, P. A. Bandettini, Whole-brain, time-locked activation with simple tasks revealed using massive averaging and model-free analysis. *Proceedings of the National Academy of Sciences* 109, 14: pp. 5487-5492 (2012)
67. S. M. Smith, P. A. Bandettini, K. L. Miller, T. E. J. Behrens, K. J. Friston, O. David, T. Liu, M. W. Woolrich, T. E. Nichols, The danger of systematic bias in group-level fMRI-lag-based causality estimation. *NeuroImage* 59, pp. 1228-1229 (2012)
68. P. A. Bandettini, R. Bowtell, P. Jezzard, R. Turner, Ultra-high field systems and applications at 7T and beyond: progress, pitfalls, and potential. *Magnetic Resonance in Medicine* 67, pp. 317-321 (2012)
69. J. Gonzalez-Castillo, V. Roopchansingh, P. A. Bandettini, J. Bodurka, Physiological noise effects on the flip angle selection in BOLD fMRI. *NeuroImage* 54 (4) pp. 2764 – 2778. (2011)
70. D. A. Handwerker and P. A. Bandettini, Simple explanations before complex theories: Alternative interpretations of Sirotin and Das' observations. *NeuroImage* 55, 4:1419-1422 (2011).
71. D. A. Ruff, S. Marrett, H. R. Heekeren, P. A. Bandettini, L. G. Ungerleider, Complementary roles of systems representing sensory evidence and systems detecting task difficulty during perceptual decision making. *Front. Neurosci.* 4:190. Doi:10.3389/fnins.2010.00190. (2010)
72. M. Misaki, Y. Kim, P. A. Bandettini, N. Kriegeskorte, Comparison of multivariate classifiers and response normalizations for pattern-information fMRI. *NeuroImage*, 53, 103-118, (2010)

73. N. Kriegeskorte, R. Cusack, P. Bandettini, How does an fMRI voxel sample the neuronal activity pattern: compact-kernal or complex spatiotemporal filter? *NeuroImage*, 49, 1965-1976 (2010).
74. M. Mur, D. A. Ruff, J. Bodurka, P. A. Bandettini, N. Kriegeskorte, Face-identity change activation outside the face system: “release from adaptation” may not always indicate neuronal selectivity. *Cerebral Cortex* (2010).
75. D. A. Handwerker and P. A. Bandettini, Hemodynamic signals not predicted? Not so: A comment on Sirotin and Das (2009). *NeuroImage* 55, 4:1409-1412 (2011).
76. R. M. Birn, L. Kenworthy, L. Case, R. Caravella, T. B. Jones, P. A. Bandettini, A. Martin, Neural systems supporting lexical search guided by letter and semantic category cues: a self-paced overt response fMRI study of verbal fluency. *NeuroImage* 49 (1) 1099-1047 (2010).
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## Book Chapters

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2. P. A. Bandettini, Functional Brain Imaging Methods: MRI, Neuroscience in the 21'st century, 2016
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### Books

1. Functional MRI, MIT Press (in preparation).
2. Functional MRI, (C. T. W. Moonen, P. A. Bandettini, Eds.), Springer - Verlag, Berlin (1999).
3. P. A. Bandettini, Ph.D. Thesis: *Magnetic Resonance Imaging of Human Brain Activation using Endogenous Susceptibility Contrast*, Biophysics Research Institute, Medical College of Wisconsin, Milwaukee (1994).

### Patents

1. US Patent # 5603,332, Feb 18, 1997, Time Course MRI Imaging of Brain Functions. Andrej Jesmanowicz, Peter A. Bandettini, James S. Hyde, Eric C. Wong

## Presentations

1. August, 2018 Nat'l Student Leadership Conference on Psych. & Neuro, American University
2. June, 2018 Non-standard Brain Imaging Analysis Workshop, Singapore
3. June, 2018 NIH fMRI summer course - History, Basics, Present, and Future of fMRI  
Copenhagen University Hospital Hvidovre, Copenhagen, Denmark
4. April, 2018 University of Illinois, Urbana-Champaign
5. Nov, 2017 Peking University, Beijing, China
6. Nov, 2017 Korean Human Brain Mapping Meeting, Seoul, South Korea
7. Nov, 2017 Korea University, Seoul, South Korea
8. Nov, 2017 Sungkyunkwan University, Seoul, South Korea
9. Nov, 2017 Korean Academy of Science and Technology, Seoul, South Korea
10. Oct, 2017 Bioinformatics and Bioengineering Conference, Herndon, VA
11. Sept, 2017 NIH fMRI summer course – the future of fMRI
12. June, 2017 NIH fMRI summer course – fMRI Limits, Paradigms and Processing
13. June, 2017 NIH fMRI summer course – History of fMRI and neuroimaging
14. June, 2017 OHBM Symposium on the History of fMRI, Vancouver, BC
15. May, 2017 University of North Carolina, Charlotte, NC
16. March, 2017 NIMH Investigator Series talk on Sharing, Bethesda, MD
17. March, 2017 University of Florida, Gainesville, FL
18. Feb, 2017 Indiana University, Indianapolis, IN
19. Feb, 2017 Purdue University, West Lafayette, IN
20. Dec, 2016 Emory & Georgia Tech, Atlanta, GA
21. Sept, 2016 FMRI BSC, Bethesda, MD
22. Aug, 2016 fMRI Course – future of fMRI and wrapup.
23. Aug, 2016 NIMH translational Neuropsychopharmacology Task Force Lecture
24. July, 2016 fMRI Course - fMRI methods that have not caught on
25. June, 2016 NIH fMRI summer course – Paradigms and Processing
26. May, 2016 NIH fMRI summer course – Spatial and Temporal Limits of fMRI
27. May, 2016 NIH fMRI summer course – History of fMRI
28. April, 2016 Neuroscience Symposium, George Mason University, MD
29. April, 2016 Fourth Annual Maryland Neuroimaging retreat, Baltimore, MD
30. Feb, 2016 International Neuropsychological Society Plenary, Boston, MA
31. Feb, 2016 International Neuropsychological Society Workshop, Boston, MA
32. Nov, 2015 MGH connectivity course, Martinos Center, Boston Navy Yard, MA
33. Oct, 2015 Stanford University, Stanford, CA
34. Oct, 2015 Talk to Neuroinformatics Core, NIH, Bethesda, MD
35. Sept, 2015 Core Facility BSC, Bethesda, MD
36. Sept, 2015 Presentation at Stein Lab at NIDA, Baltimore, MD
37. Sept, 2015 NIH fMRI summer course – contentious issues and future of fMRI

38. Aug, 2015 SAMSI workshop, Charlotte, NC
39. July, 2015 NIH fMRI summer course – fMRI methods that never caught on
40. July, 2015 NIH fMRI summer course – fMRI paradigms and processing methods.
41. June, 2015 Hawaii BrainSTIM workshop, Honolulu, HI
42. June, 2015 NIH fMRI summer course – temporal and spatial resolution
43. June, 2015 NIH fMRI summer course – course introduction and history of fMRI
44. May, 2015 MGH Martinos Center Brainmap Lectrue, Boston, MA
45. May, 2015 MGH multi-modal fMRI course, MGH
46. April, 2015 Take your child to work day, NIH
47. April, 2015 NeuroHIV Interest Group, NIH
48. Feb, 2015 University of Southern California, Los Angeles, CA
49. Jan, 2015 University of Arizona, Tucson
50. Dec, 2014 University of California, Irvine
51. Nov, 2014 NSF Workshop, Arlington, VA
52. Oct, 2014 Maryland Judicial Institute Course, Annapolis
53. Oct, 2014 Workshop of the Cuban Neuroscience Center, Havana, Cuba
54. Oct, 2014 Grand Rounds, Gastroenterology Department, MCW, Milwaukee, WI
55. Oct, 2014 Biophysics Department, MCW, Milwaukee, WI
56. Sept, 2014 Resting State Workshop, MIT, Boston, MA
57. Sept, 2014 NIH fMRI summer course – the future of fMRI
58. Sept, 2014 Talk to NIH residents
59. Aug, 2014 NIH fMRI summer course – contentious issues in fMRI
60. Aug, 2014 NIH fMRI summer course – fMRI methods that have not caught on
61. July, 2014 NIH fMRI summer course – fMRI on individual subjects
62. July, 2014 NIH fMRI summer course – fMRI paradigm designs and processing
63. June, 2014 ISMRM workshop on fMRI, Charleston, SC
64. June, 2014 NIH fMRI summer course - Contrast and Limits in Resolution in fMRI
65. June, 2014 NIH fMRI summer course - History of fMRI
66. May, 2014 Opening symposium, Maastricht Brain Imaging Center
67. March, 2014 Tour talk for Francis Collins
68. Feb, 2014 Burning Tree Elementary, Lunch with a Scientist
69. Feb, 2014 Max Planck Institute, Leipzig
70. Jan, 2014 UC Irvine, Irvine, CA
71. Dec, 2013 Fort Dietrich, Frederick, MD
72. Nov, 2013 Siemens online presentation
73. Oct, 2013 MGH Resting State Course
74. Oct, 2013 Marquette University, Milwaukee, WI
75. Oct, 2013 Medical College of Wisconsin, Milwaukee, WI
76. Sept, 2013 Outstanding Residents Tour Talk, NIH
77. Aug, 2013 NIH fMRI summer course – contentious issues in fMRI
78. Aug, 2013 NIH fMRI summer course – individual subjects
79. June, 2013 NIH fMRI summer course – fMRI contrast/development
80. June, 2013 NIH fMRI summer course – history of fMRI
81. April, 2013 University of Toronto, Baycrest Medical Center, Canada
82. April, 2013 Presidential Commission for the Study of Bioethical Issues
83. March, 2013 Genetics in fMRI Conference, Turtle Bay, Oahu, HI
84. Feb, 2013 IEEE Medical Imaging Conference, Orlando, FL
85. Jan, 2013 Talk to NIMH leadership individual subject assessment

86. Jan, 2013      Talk to Biochemistry and Biophysics Center, NHLBI
87. Dec, 2012      MGH Resting State Course
88. Dec, 2012      Yale University, New Haven, CT
89. Nov, 2012      BSC review talk
90. Oct, 2012      Congress of Neurosurgery, Chicago
91. Sept, 2012      Resting State Workshop, Magdeburg, Germany
92. Aug, 2012      NIH fMRI summer course – future of fMRI
93. Aug, 2012      NIH fMRI summer course – contentious issues in fMRI
94. July, 2012      UCLA workshop – 20 years of fMRI
95. July, 2012      UCLA workshop – improvements, optimizations, and limits of fMRI
96. June, 2012      NIH fMRI summer course – fMRI development
97. June, 2012      NIH fMRI summer course – history of fMRI
98. June, 2012      Institute of Psychology, China
99. April, 2012      University of West Virginia – lecture 2
100.      April, 2012      University of West Virginia – lecture 1
101.      Feb, 2012      ISMRM Functional Brain Imaging Workshop, Whistler, BC
102.      Dec, 2011      Maastricht, The Netherlands
103.      Nov, 2011      Washington DC VA hospital grand rounds
104.      Sept, 2011      National Science Foundation – future of fMRI
105.      Sept, 2011      NIH fMRI summer course – future of fMRI
106.      Sept, 2011      NIH fMRI summer course – contentious issues in fMRI
107.      July, 2011      University of California, San Diego
108.      July, 2011      Carnegie Mellon University
109.      June, 2011      OHBM advanced fMRI course
110.      June, 2011      NIH fMRI Summer Course – Basics of fMRI
111.      June, 2011      NIH fMRI Summer Course – History of fMRI
112.      April, 2011      Sickle Cell Disease Advisory Committee, Bethesda, MD
113.      Feb, 2011      Functional MRI Core Facility Review Talk
114.      Jan, 2011      Sigma Xi Sigma of Washington DC area talk
115.      Dec, 2010      Pacific Rim fMRI Meeting, Turtle Bay, Oahu, HI
116.      Oct, 2010      Outstanding Resident Talk and Tour, NIH
117.      Sept, 2010      University of Tulsa, Tulsa, OK
118.      Sept, 2010      MCW workshop on resting state fMRI
119.      August, 2010      NIH fMRI summer course – Future of fMRI
120.      June, 2010      NIH fMRI summer course – Basics of fMRI
121.      June, 2010      NIH fMRI summer course – History of fMRI
122.      May, 2010      Erice, Sicily, Italy Workshop
123.      May, 2010      ISMRM education session, Stockholm, Sweden
124.      April, 2010      Montreal Neurological Institute, Montreal, Canada
125.      April, 2010      FIM lab meeting
126.      Feb, 2010      University of Maryland, College Park, MD
127.      Nov, 2009      Georgia Tech University, Atlanta, GA
128.      Oct, 2009      CNTRICS Tools for brain imaging, Baltimore, MD
129.      Oct, 2009      University of Minnesota
130.      Oct , 2009      Outstanding fellow program tour, NIH
131.      Oct, 2009      Washington VA Medical Center
132.      Sept, 2009      15'th BC-ISMRM, Cardiff, UK
133.      Aug, 2009      6'th annual IBMISP, Boston MA

134. July, 2009 University of Pittsburgh, Pittsburgh, PA
135. May, 2009 NINDS council meeting
136. April, 2009 Sligo Creek Elementary School
137. March, 2009 MCW Graduate Course
138. Feb, 2009 Journal Club for fMRI discussion group
139. Feb, 2009 NIMH IRP Seminar
140. Feb, 2009 Talk for French Embassy Representatives
141. Nov, 2008 Tour talk Norwegian contingent
142. Oct, 2008 Obesity Workshop
143. Oct, 2008 University of Colorado, Boulder
144. Sept, 2008 NIH Blueprint Workshop on Non-invasive Imaging
145. July, 2008 MERGe summer series lecture, NIH, Bethesda, MD
146. May, 2008 ISMRM symposium on unsolved problems
147. May, 2008 ISMRM education program
148. April, 2008 Fairhaven retirement community, Sykesville, MD
149. April, 2008 Overview of fMRI at NIH to MD, Ph.D. students
150. May, 2008 Indiana Neuroimaging Symposium, Indianapolis, IN
151. Feb, 2008 Medical College of Wisconsin
152. Feb, 2008 University of Michigan, MI
153. Feb, 2008 International Neuropsychology Society, Waikoloa, HI
154. Jan, 2008 Sigma Xi physics society
155. Jan, 2008 Georgetown University
156. Dec, 2007 McGovern Institute, Boston, MA
157. Nov, 2007 Board of Scientific Counselors (BSC) Review lecture
158. Oct, 2007 Tour talk to NIMH Outstanding Residents, NIH
159. Oct, 2007 Parmenides Lecture, Lake Chiemsee, Germany
160. August, 2007 MERGe summer series lecture, NIH, Bethesda, MD
161. August, 2007 National Research Council, Washington DC
162. June, 2007 OHBM Meeting Wrap-up, Chicago, IL
163. June, 2007 OHBM advanced fMRI course motivation
164. June, 2007 MCW fMRI Course, Milwaukee
165. May, 2007 University of Wisconsin, Milwaukee, Milwaukee, WI
166. April, 2007 NIDDK Obesity Research Conference, Bethesda, MD
167. April, 2007 NINDS Retreat, Arlie Conference Center, Arlie, VA
168. March, 2007 MCW Graduate Course in fMRI, Talk 2, Milwaukee, WI
169. March, 2007 Shorewood High School, Shorewood, WI
170. March, 2007 Lake Bluff Grade School, Shorewood, WI
171. Feb, 2007 MCW Graduate Course in fMRI, Talk 1, Milwaukee, WI
172. Jan, 2007 Stanford University, Palo Alto, CA
173. Jan, 2007 Presentation to the UGSP Scholars
174. Dec, 2006 FMRIF Review Talk
175. Nov, 2006 Max Plank fMRI school, Sorrento, Italy
176. Sept, 2006 Nicola Tesla Lecture, Mind and Brain V, Dubrovnik, Croatia.
177. Sept, 2006 Workshop on Advanced fMRI in Ji-Nan, China
178. Aug, 2006 West Potomac HS Area teachers meeting, Alexandria, VA.
179. Aug, 2006 fMRI Overview for Mark Hallett's group.
180. June, 2006 Neural Correlates of Thinking, Elba, Italy
181. June, 2006 OHBM 2005 education program, Florence, Italy

182. May, 2006 MCW fMRI course, Milwaukee, WI
183. April, 2006 GE CRADA talk, GE Medical Systems, Milwaukee
184. April, 2006 NIH Monkey Journal Club
185. March, 2006 SMRT President's Symposium, University of Virginia Medical Center
186. Feb, 2006 University of California San Diego, San Diego, CA
187. Feb, 2006 NIH FMRI discussion group
188. Jan, 2006 NIH Monkey Journal Club
189. Dec, 2005 Neural Information Processing Systems Workshop, Whistler, BC
190. Nov, 2005 Krasnow Institute, George Mason University, Washington DC
191. Oct, 2005 Tour talk to NIMH Outstanding Residents, NIH
192. Sept, 2005 The fMRI experience VII, Aston University, UK
193. Aug, 2005 NSF Security Evaluation Workshop, Arlington, VA
194. June, 2005 MCW fMRI course, Milwaukee, WI
195. June, 2005 OHBM 2005 education program, Toronto, CA
196. June, 2005 Brain 2005, Amsterdam, The Netherlands
197. May, 2005 American Psychiatric Association Meeting, Atlanta, GA
198. May, 2005 DIRP investigator seminar, NIH, Bethesda, MD
199. May, 2005 ISMRM 2005 education program, Miami, FL
200. April, 2005 NIH Director's Council of Public Representatives (COPR) tour
201. April, 2005 Williamsport High School, Williamsport, MD
202. April, 2005 Seneca Valley High School, Germantown, MD .
203. April, 2005 University of Maastricht, The Netherlands
204. April, 2005 Brain Connectivity Meeting, Boca Raton, FL
205. March, 2005 NIMH PI Retreat, FMRIF overview, Bethesda, MD
206. Feb, 2005 Marquette University Physics Department, Milwaukee, WI .
207. Feb, 2005 Functional MRI graduate course, MCW, Milwaukee, WI .
208. Jan, 2005 NINDS Incidental Findings Meeting, Bethesda, MD .
209. Jan, 2005 NIMH Outreach Partnership Program Meeting .
210. Nov, 2004 Max Plank fMRI school, Sorrento, Italy .
211. Nov, 2004 MCW fMRI course, Milwaukee, WI .
212. Sept, 2004 NIH extramural Inter-Institute Imaging Group, Bethesda
213. July, 2004 Gordon Conf: In Vivo MRI, Bates College, Maine
214. June, 2004 The Workshop on Brain Imaging and Health Comm. Research,  
Bethesda
215. June, 2004 NIMH Extramural Neuroscience Seminar, Bethesda
216. June, 2004 OHBM 2004 education program, Budapest
217. June, 2004 MCW fMRI course, Milwaukee, WI
218. May, 2004 26'th Int'l Symposium, Functional Neuroimaging, Montreal CA.
219. April, 2004 NIH Director's Council of Public Representatives (COPR) tour
220. April, 2004 Third Int'l Symposium on Cognitive Neuroscience, Hong Kong,  
China
221. March, 2004 Presentation for Carmelite Priests
222. March, 2004 NIMH Outreach Partnership Program Meeting
223. March, 2004 National Academy of Sciences, Washington DC
224. Feb, 2004 32'nd Annual International Neuropsychological Meeting,  
Baltimore, MD.
225. Jan, 2004 Rutgers University, NJ
226. Nov, 2003 C.O.R.E. talk, NIH

227. Oct, 2003 Georgetown University, Washington DC  
 228. Oct, 2003 MCW fMRI course, Milwaukee, WI  
 229. Oct, 2003 University of Wisconsin, Madison  
 230. Oct, 2003 High Field Workshop, University of Minnesota  
 231. Sept, 2003 University of Udina, Italy  
 232. Sept, 2003 Bio imaging Conference, Chieti, Italy  
 233. Aug, 2003 fMRI discussion group, NIH  
 234. June, 2003 OHBM 2003 morning symposium, New York  
 235. June, 2003 Ampere XI conference, Zakopane, Poland  
 236. May, 2003 MCW fMRI course, Milwaukee, WI  
 237. May, 2003 Mitre Corporation, McClain, VA  
 238. April, 2003 LBC BSC Review presentation  
 239. March, 2003 fMRI Experience V, Kings College London, England  
 240. March, 2003 Springdale High School, Silver Spring, MD  
 241. Feb, 2003 NIH Cloisters, High School Teacher workshop,  
 242. Jan, 2003 Functional Imaging Laboratory, London, UK  
 243. Nov, 2002 UCLA Functional Brain Imaging Facility, LA, CA  
 244. Oct, 2002 Functional MRI graduate course, MCW, Milwaukee, WI  
 245. Oct, 2002 MCW fMRI course, Milwaukee, WI  
 246. Sept, 2002 Brainstorm 2002, Athens, Greece  
 247. Sept, 2002 West Virginia University, Morgantown, WV  
 248. July, 2002 Key Laboratory of Cognitive Science, Chinese Academy of Sciences  
 249. July, 2002 Beijing Normal University, Beijing, China  
 250. July, 2002 Summer School, Brain Sciences Institute, RIKEN, Tokyo, Japan  
 251. July, 2002 FMRI database workshop, Dartmouth University, NH.  
 252. June, 2002 Workshop fMRI and rehabilitation. Sugarloaf Conf. Cntr.,  
 Philadelphia, PA  
 253. June, 2002 MGH fMRI Course, MGH NMR Center, Charlestown, MA  
 254. June, 2002 "The Future of fMRI" OHBM 2002 Education Program, Sendai, JP.  
 255. May, 2002 FMRI Experience Conference, NIH, Bethesda, MD  
 256. May, 2002 MCW fMRI course, MCW, Milwaukee, WI  
 257. April, 2002 Albert Einstein College of Medicine of Yeshiva University.  
 258. March, 2002 MGH fMRI course, MGH-NMR Center, Charlestown, MA  
 259. March, 2002 Yale University, New Haven, CT  
 260. Jan, 2002 fMRI Training Course, University of Texas, Dallas  
 261. Oct, 2001 Georgetown University, Washington DC  
 262. Oct, 2001 MCW fMRI course, Medical College of Wisc, Milwaukee, WI  
 263. Sept, 2001 Uniformed Services University, Bethesda, MD  
 264. Sept, 2001 University of Virginia, Charlottesville, VA  
 265. Aug, 2001 Beijing Normal University, Beijing, China  
 266. Aug, 2001 International Cognitive Neuroscience Meeting, Beijing, China  
 267. July, 2001 FMRI database workshop, Dartmouth University, NH  
 268. June, 2001 MGH-APA fMRI course, MGH-NMR Center, Charlestown, MA  
 269. June, 2001 3T scanner inauguration meeting, San Giovanni Rotundo, Italy  
 270. June, 2001 Brindizzi, Italy  
 271. June, 2001 OHBM education program, Brighton, UK  
 272. June, 2001 Workshop on neurovascular coupling, Tokyo, JP  
 273. May, 2001 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI

274. May, 2001 William and Mary University, Williamsburg, VA
275. April, 2001 fMRI Experience, Kings College, London, UK
276. Oct, 2000 Workshop on Understanding the BOLD, Chapel Hill, NC.
277. Oct, 2000 APA - fMRI Workshop, San Diego, CA
278. Oct, 2000 3T Opening Lecture, Melbourne, Australia
279. July, 2000 Lecture for Grafman group, NINDS, NIH Bethesda, MD
280. June, 2000 MGH-APA fMRI course, MGH-NMR Center, Charlestown, MA
281. June, 2000 OHBM course on fMRI, San Antonio, TX
282. June, 2000 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
283. May, 2000 Workshop on neurovascular coupling at Ringberg Castle, Germany
284. Feb, 2000 Marquette University Physics Department, Milwaukee, WI
285. Feb, 2000 MCW graduate course on fMRI contrast, Milwaukee, WI
286. Feb, 2000 Purdue University, West Lafayette, Indiana
287. Feb, 2000 University of British Columbia, Vancouver, BC
288. Jan, 2000 Yale School of Medicine, New Haven, Connecticut
289. Nov, 1999 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
290. Oct, 1999 NIH FAES course lecture
291. Oct, 1999 Integrative Neuroscience Seminar, Building 49, NIH
292. Sept. 1999 NIMH Intramural Retreat Lecture
293. Aug, 1999 Cold Spring Harbor course on Brain Mapping, NY
294. June, 1999 OHBM educational course lecture, Duesseldorf, Germany
295. June, 1999 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
296. Feb, 1999 Future of fMRI lecture at MCW.
297. Dec, 1998 Neuropsychopharmacology meeting lecture, Puerto Rico
298. Oct, 1998 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
299. Oct, 1998 Functional MRI Workshop Lectures, Rome, Italy
300. Aug, 1998 Biomag '98, Sendai, Japan
301. July, 1998 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
302. June, 1998 National Institutes of Health, Bethesda, MD
303. June, 1998 Humboldt University, Charite Hospital, Berlin, Germany
304. May, 1998 Functional Brain Imaging Workshop, Helsinki, Finland
305. April, 1998 MGH traveling fMRI course, Melbourne, Australia
306. Feb, 1998 MGH Training Workshop Lectures, Kauai, HI
307. Feb, 1998 International Neuropsychology Society, Honolulu, HI
308. Dec, 1997 MGH traveling fMRI course, Caen, France
309. Oct, 1997 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
310. Oct, 1997 MGH fMRI course, MGH-NMR Center, Charlestown, MA
311. Oct, 1997 The Roland Institute, Cambridge, MA
312. Sept, 1997 Georgetown University, Washington D. C.
313. Sept, 1997 Arterial Spin Labeling Conference, NIH, Bethesda, MD
314. July, 1997 MGH traveling fMRI course, Oxford, England
315. July, 1997 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
316. June, 1997 Functional MRI Conference, Trani, Italy
317. May, 1997 MGH traveling fMRI course, Perth, Australia
318. May, 1997 First Norwegian Symposium on fMRI of the Brain, Bergen, Norway
319. March, 1997 Third Midwest Course on fMRI, Minneapolis, MN
320. Feb, 1997 Marquette University Biomed Eng. Dept., Milwaukee, WI
321. Feb, 1997 Hitachi Corporation, Tokyo, Japan

- 322. Feb, 1997 fMRI Symposium, Tsukuba, Japan
- 323. Jan, 1997 University of California, San Diego, San Diego, CA
- 324. Jan, 1997 University of Arizona, Tucson, AZ
- 325. Oct, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
- 326. Oct, 1996 Norwegian Medical Physics Society Meeting, Oslo, Norway
- 327. Sept, 1996 Biophysics Research Institute, Milwaukee, WI
- 328. Sept, 1996 GE Medical Systems
- 329. Aug, 1996 University of Rochester, Rochester, NY
- 330. June, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
- 331. June, 1996 fMRI2Day Workshop, Human Brain Mapping Meeting, Boston, MA
- 332. June, 1996 Santa Fe Institute, Complex Systems Summer School, Santa Fe, NM
- 333. Feb, 1996 Cornell University Medical Center, New York, NY
- 334. Feb, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
- 335. Jan, 1996 Human Brain Project, Wakula Springs, FL
- 336. Jan, 1996 Research Institute of Brain and Blood Vessels, Akita, Japan
- 337. Oct, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
- 338. Sept. 1995 University of Arizona, Tucson, AZ
- 339. June, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
- 340. May, 1995 M.D. Anderson Cancer Center, Houston, TX
- 341. May, 1995 Washington University School of Medicine, St. Louis, MO
- 342. April, 1995 Marquette University Physics Dept., Milwaukee, WI
- 343. Feb, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
- 344. Jan, 1995 McDonnell Pew Foundation, Tucson, AZ
- 345. Nov, 1994 Second Midwest Course on fMRI, Madison, WI
- 346. Oct, 1994 Ph. D. Dissertation Defense, Biophysics Research Institute, MCW
- 347. Sept, 1994 Macarthur Foundation, Chicago, IL
- 348. Aug, 1994 SMR mini – cat. course, San Francisco, CA
- 349. June, 1994 University of Florida, Gainesville, FL
- 350. Feb, 1994 Michigan State University, East Lansing, MI
- 351. Dec, 1993 MGH - NMR Center, Charlestown, MA
- 352. Dec, 1993 University of Wisconsin, Madison, Madison, WI
- 353. Dec, 1993 Stanford University, Palo Alto, CA
- 354. Nov, 1993 National Institutes of Health, Bethesda, MD
- 355. Oct, 1993 Teknisk Aften, Oslo Norway
- 356. Oct, 1993 University of Texas Health Science Center, San Antonio, TX
- 357. Sept, 1993 University of California, Los Angeles, Los Angeles, CA
- 358. Nov, 1993 First Midwest Course on fMRI, Milwaukee, WI
- 359. June, 1993 Functional MRI of the Brain, Arlington, VA
- 360. May, 1993 Medical College of Wisconsin Council Meeting, Milwaukee, WI
- 361. April, 1993 17th Annual Great Lakes Biomedical Conference, Racine, WI
- 362. Dec, 1992 Milwaukee County Hospital, Milwaukee, WI
- 363. Nov, 1992 Wisconsin Neurosurgeons Annual Meeting, Milwaukee, WI
- 364. Oct, 1992 Froedert Memorial Hospital, Milwaukee, WI
- 365. Oct, 1992 Charter Hospital, Sioux Falls, SD
- 366. Oct, 1992 McKennon Hospital, Sioux Falls, SD
- 367. July, 1992 GE Medical Systems, Milwaukee, WI
- 368. June, 1992 University of Chicago Hospital, Chicago, IL
- 369. March, 1992 Dissertation Outline Defense, Milwaukee, WI

- 370. Dec, 1991 University of Chicago Hospital, Chicago, IL
- 371. March, 1991 "Non-standard uses of EPI" Biophysics Dept., MCW