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

Home Address:
8935 Burning Tree Rd.
Bethesda, MD 20817

Office Address:
Functional MRI Facility
Building 10, Room 1D80b
10 Center Dr. MSC 1148
Bethesda, MD 20892-1148

Phone Numbers:
Phone: 301-402-1333
Mobile : 240-938-1610

e-mail: bandettini@nih.gov

Education:

1989 B.S., Physics, Marquette University
1994 Ph.D., Biophysics, 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, MCW, 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

1997	Milwaukee Business Journal's "40 under 40"
2001	Wiley/OHBM Young Investigator Award
2001,7,15	NIMH Directors Award
2013	NIMH Outstanding Mentor Award
2015	ISMRM Fellow of the Society
2020	ISMRM Gold Medal Recipient

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)
OHBM Aperture: co-founder and co-chair of advisory board (2018-present)

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 – 2017)

Meeting, Organization, and Society Activit

· 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

  Standards Committee
  - *Chair-Elect* Rome 2019
  - *Chair-Elect* Virtual 2020

  Aperture Oversight Committee
  - Co-chair 2018-present.

- 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)
Georgetown University fMRI Center (2006-present)
Johns Hopkins Research Resource for Quantitative fMRI (2008 – present)
GE Medical Systems Head-Only Scanner Development (2009-present)
Duke University Brain Project (2016)
Medical University of South Carolina, Charleston, SC. (2016)
MIND Institute, Albuquerque, NM (2016-present)
Max Planck Institute for Metabolism (2017-present)
Scientific Advisory Board for the Center for Biomedical Imaging, Geneva, Switzerland (2020 - present)

NIH Committees:

Stadtman Investigator Selection Committee (2011,2015-2017)
Assembly of Scientists (2021-present)

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)
Sara Kimmich, University College, London (2016-18)
Jacob Levenstein, Oxford University, Oxford (2016-present)
Samika Kumar, Oxford University, Oxford (2019-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 (2015-2018)
Yuhui Chai (2016-present)
Emily Finn (2017-present)
Ru-Yuan Zhang (2018-2020)
Andrew (Tyler) Morgan (2020-present)
Somayeh (Bahar) Shahsavarani (2020-present)
Burak Aken (anticipated 2021)
Sharif Kronemer (anticipated 2021)

Below are the three 20-25 page research summaries from my NIMH research section (SFIM) and core facility (FMRIF) since 1999.

BSC UFIM 2003

BSC SFIM 2007

BSC SFIM 2012

BSC SFIM 2016

BSC SFIM 2020

BSC FMRIF 2015

BSC FMRIF 2019

preBSC FMRIF 2011

Papers

According to Google Scholar [Dec 29, 2020] total citations = 39026, h-index = 90, i10 index = 185

1. F. L. Pedrotti, P. A. Bandettini, Faraday rotation in the undergraduate advanced laboratory. *American Journal of Physics* **58**, 542-545 (1990).

2. P. A. Bandettini, E. C. Wong, R. S. Tikofsky, R. S. Hinks, J. S. Hyde, Time course EPI of human brain function during task activation. *Magn. Reson. Med.* **25**, 390-397 (1992).

3. J. T. Eells, P. A. Bandettini, P. A. Holman, J. M. Propp, Pyrethroid insecticide induced alterations in mammalian synaptic membrane potential. *Journal of Pharmacology and Experimental Theraputics* **262**, 1173-1181 (1992).

4. P. A. Bandettini, A. Jesmanowicz, E. C. Wong, J. S. Hyde, Processing strategies for time-course data sets in functional MRI of the human brain. *Magn. Reson. Med.* **30**, 161-173 (1993).

5. J. T. Eells, J. L. Rasmussen, P. A. Bandettini, J. M. Propp, Differences in neuroexcitatory actions of pyrethroid insecticides and sodium channel specific neurotoxins in rat and trout brain synaptosomes. *Toxicology and Applied Pharmacology* **123**, 107-119 (1993).

6. S. M. Rao, J. R. Binder, P. A. Bandettini, T. A. Hammeke, Z. A. Yetkin, J. Jesmanowicz, L. M. Lisk, G. L. Morris, W. M. Mueller, L. D. Estkowski, E. C. Wong, V. M. Haughton, J. S. Hyde, Functional magnetic resonance imaging of complex human movements. *Neurology* **43**, 2311-2318 (1993).

7. P. A. Bandettini, E. C. Wong, A. Jesmanowicz, R. S. Hinks, J. S. Hyde, Spin-echo and gradient-echo EPI of human brain activation using BOLD contrast: a comparative study at 1.5 Tesla. *NMR in Biomedicine* **7**, 12-20 (1994).

8. J. J. Sychra, P. A. Bandettini, N. Bhattacharya, Q. Lin, Synthetic images by subspace transforms I: principal components images and related filters. *Med. Phys.* **21**, 193-201 (1994).

9. J. R. Binder, S. M. Rao, T. A. Hammeke, F. Z. Yetkin, A. Jesmanowicz, P. A. Bandettini, E. C. Wong, L. D. Estkowski, M. D. Goldstein, V. M. Haughton, J. S. Hyde, Functional magnetic resonance imaging of human auditory cortex. *Ann. Neurol.* **35**, 662-672 (1994).

10. J. R. Binder, S. M. Rao, T. A. Hammeke, J. A. Frost, P. A. Bandettini, J. S. Hyde, Effects of stimulus rate on signal response during functional magnetic resonance imaging of auditory cortex. *Cogn. Brain Res.* **2**, 31-38 (1994).

11. G. L. Morris III, W. M. Meuller, F. Z. Yetkin, H. V. M., T. A. Hammeke, S. Swanson, S. M. Rao, A. Jesmanowicz, L. D. Estkowski, P. A. Bandettini, E. C. Wong, J. S. Hyde, Functional magnetic resonance imaging in partial epilepsy. *Epilepsia* **35**, (1994).

12. E. A. DeYoe, P. A. Bandettini, J. Nietz, D. Miller, P. Winas, Functional magnetic resonance imaging (FMRI) of the human brain. *J. Neuroscience Methods* **54**, 171-187 (1994).

13. J. R. Binder, T. A. Rao, J. A. Hammeke, J. A. Frost, P. A. Bandettini, A. Jesmanowicz, J. S. Hyde, Lateralized human brain language systems demonstrated by task subtraction functional magnetic resonance imaging. *Arch. Neurol.* **52**, 593-601 (1995).

14. J. L. Boxerman, P. A. Bandettini, K. K. Kwong, J. R. Baker, T. L. Davis, B. R. Rosen, R. M. Weisskoff, The intravascular contribution to fMRI signal change: monte carlo modeling and diffusion - weighted studies in vivo. *Magn. Reson. Med.* **34**, 4-10 (1995).

15. P. A. Bandettini, E. C. Wong, The effects of biophysical and physiologic parameters on brain activation - induced R2* and R2 changes: simulations using a deterministic diffusion model. *International Journal of Imaging Systems and Technology* **6**, 133-152 (1995).

16. S. M. Rao, J. R. Binder, T. A. Hammeke, P. A. Bandettini, J. A. Bobholz, J. A. Frost, B. M. Myklebust, R. D. Jacobson, J. S. Hyde, Somatotopic mapping of the human primary motor cortex with functional magnetic resonance imaging. *Neurology* **45**, 919-924 (1995).

17. S. Bates, Z. Yetkin, A. Jesmanowicz, H. J. S., P. A. Bandettini, L. Estkowski, V. M. Haughton, Artifacts in functional magnetic resonance imaging from gaseous oxygen. *Journ. of Mag. Res. Imag.* **4**, 443-445 (1995).

18. E. A. DeYoe, G. Carman, P. Bandettini, G. S., W. J., R. Cox, D. Miller, J. Neitz, Mapping striate and extrastriate visual areas in human cerebral cortex. *Proc. Nat'l. Acad. Sci.* **93**, 2282-2386 (1996).

19. S. M. Rao, P. A. Bandettini, J. R. Binder, J. A. Bobholz, T. A. Hammeke, E. A. Stein, J. S. Hyde, Relationship between finger movement rate and functional magnetic resonance signal change in human primary motor cortex. *J. Cereb. Blood Flow and Met.* **16**, 1250-1254 (1996).

20. P. W. R. Woodruff, R. R. Benson, P. A. Bandettini, K. K. Kwong, R. Howard, T. Talavage, J. Belliveau, B. R. Rosen, Modulation of auditory and visual cortex by selective attention is modality - dependent. *NeuroReport* **7**, 1909-1903 (1996).

21. R. L. Buckner, P. A. Bandettini, K. M. O'Craven, R. L. Savoy, S. E. Peterson, M. E. Raichle, T. L. Brady, B. R. Rosen, fMRI detection and time course of distributed cortical activations during single trials of a cognitive task. *Proc. Nat'l. Acad. Sci. USA* **93**, 14878-14883 (1996).

22. P. A. Bandettini, K. K. Kwong, T. L. Davis, R. B. H. Tootell, E. C. Wong, P. T. Fox, J. W. Belliveau, R. M. Weisskoff, B. R. Rosen, Characterization of cerebral blood oxygenation and flow changes during prolonged brain activation. *Human Brain Mapping* **5**, 93-109 (1997).

23. P. A. Bandettini, E. C. Wong, A hypercapnia - based normalization method for improved spatial localization of human brain activation with fMRI. *NMR in Biomedicine* **10**, 197-203 (1997).

24. J. Caplan, P. A. Bandettini, J. P. Sutton, Weight - space mapping of fMRI motor tasks: evidence for nested neural networks *in* "Computational Neuroscience '96" (J. Bower, Ed.), p.585-589, Plenum, New York, (1997).

25. P. A. Bandettini, J. Jesmanowicz, J. VanKylen, R. M. Birn, J. S. Hyde, Functional MRI of brain activation induced by scanner acoustic noise. *Magn. Reson. Med.* **39**, 410-416 (1998).

26. R. M. Birn, P. A. Bandettini, A. Jesmanowicz, R. Shaker, R. W. Cox, Magnetic field changes in the human brain due to swallowing or speaking. *Magn. Reson. Med.* **40**, 55-60 (1998).

27. K. M. Donahue, J. VanKylen, S. Guven, A. El-Bershawi, W.-M. Luh, P. A. Bandettini, R. W. Cox, J. S. Hyde, A. H. Kissebah, Simultaneous gradient-echo / spin - echo EPI of graded ischemia in human skeletal muscle. *J. Mag. Res. Imag.* **8**, 1106-1113 (1998).

28. A. Jesmanowicz, P. A. Bandettini, J. S. Hyde, Single shot half k-space high resolution EPI for fMRI at 3T. *Magn. Reson. Med.* **40**, 754-762 (1998).

29. E. A. Stein, J. Pankiewicz, H. H. Harsch, J.-K. Cho, S. A. Fuller, R. G. Hoffmann, M. Hawkins, S. M. Rao, P. A. Bandettini, A. S. Bloom, Nicotine-induced limbic cortical activation in the human brain: a functional MRI study. *Am. J. Psychiatry* **155**, 1009-1015 (1998).

30. R. M. Birn, P. A. Bandettini, R. W. Cox, R. Shaker, Event - related fMRI of tasks involving brief motion. *Human Brain Mapping* **7:** 106-114 (1999).

31. W.-M. Luh, E. C. Wong, P. A. Bandettini, J. S. Hyde, QUIPSS II with thin - slice TI1 periodic saturation: a method for improved accuracy of quantitative perfusion imaging using pulsed arterial spin labeling. *Magn. Reson. Med.* **41:** 1246-1254, (1999).

32. G. M. Hathout, R. K. Gopi,. P. Bandettini, SS Gambhir. The lag of cerebral hemodynamics with rapidly alternating periodic stimulation: modeling for functional MRI. *Magnetic Resonance Imaging*. **17:** 9-20, (1999).

33. P. A. Bandettini, R. W. Cox. Event-related fMRI contrast when using constant interstimulus interval: theory and experiment. *Magn. Reson. Med.* **43**: 540-548 (2000).

34. W.-M. Luh, E. C. Wong, P. A. Bandettini, B. D. Ward, J. S. Hyde, Comparison of simultaneously measured perfusion and BOLD signal increases during brain activation using QUIPSS II with thin - slice TI1 periodic saturation. *Magn. Reson. Med.* **44**: 137-143 (2000).

35. R. M. Birn, Z. Saad, P. A. Bandettini, Spatial heterogeneity of the nonlinear dynamics in the fMRI BOLD response. *NeuroImage*, **14**: 817-826, (2001).

36. P. A. Bandettini and L. G. Ungerleider, From neuron to BOLD: new connections. *Nature Neuroscience,* **4**: 864-866, (2001).

37. R. M. Birn, R. W. Cox, P. A. Bandettini, Detection versus estimation in Event-Related fMRI: choosing the optimal stimulus timing. *NeuroImage* **15:** 262-264, (2002).

38. J. Bodurka, P. A. Bandettini. Toward direct mapping of neuronal activity: MRI detection of ultra weak transient magnetic field changes, *Magn. Reson. Med* **47**: 1052-1058, (2002)

39. P. A. Bandettini, R. M. Birn, D. Kelley, Z. S. Saad. Dynamic nonlinearities in BOLD contrast: neuronal or hemodynamic? *Elsevier Excerpta Medica International Congress Series.* **1235**: 73-85 (2002).

40. E. L. Barbier, S. Marrett, A. Danek, A. Vortmeyer, P. van Gelderen, J. Duyn, P. Bandettini, J. Grafman, A. P. Koretsky, Imaging cortical anatomy by high resolution MR at 3.0 T: dectection of the Stripe Gennari in Visual Area 17 *Magn. Reson. Med.* **48**: 735-738, (2002)

41. Z. S. Saad, K. M. Ropella, E. A. DeYoe, P. A. Bandettini, The spatial extent of the BOLD response. *NeuroImage,* **19:** 132-144, (2003).

42. J. C. Patterson II, L. G. Ungerleider, and P. A Bandettini, Task - independent functional brain activity correlation with skin conductance changes: an fMRI study. *NeuroImage*, **17**: 1787-1806, (2002).

43. L. Pessoa, E. Gutierrez, P. A. Bandettini, L. G. Ungerleider, Neural Correlates of Visual Working Memory: fMRI Amplitude Predicts Task Performance, *Neuron,* **35**: 975-987, (2002).

44. P.S.F. Bellgowan, Z. S. Saad, P. A. Bandettini, Understanding neural system dynamics through task modulation and measurement of functional MRI amplitude, latency, and width. *Proc. Nat'l. Acad. Sci. USA* **100**, 1415-1419 (2003).

45. D. C. Knight, H. T. Nguyen, P. A. Bandettini, Expression of conditional fear with and without awareness, *Proc. Nat'l. Acad. Sci. USA* **100,** 15280-15283 (2003).

46. H. R. Heekeren, S. Marrett, P. A. Bandettini, L. G. Ungerleider, A general mechanism for perceptual decision making in the human brain. *Nature* **43**, 859-862 (2004).

47. R.M. Birn, R. W. Cox, P. A. Bandettini, Experimental designs and processing strategies for fMRI studies involving overt responses. *NeuroImage,* **23,** 1046-1058 (2004)

48. P.A. Bandettini, N. Petridou, J. Bodurka, Direct detection of neuronal activity with MRI: fantasy, possibility, or reality? *Applied MRI* **29 (1)** pp. 65-88 (2005).

49. R.M. Birn, P. A. Bandettini, The effect of stimulus duty cycle and "off" duration on BOLD response linearity. *NeuroImage*, **27**, 70-82 (2005).

50. D. C. Knight, H. T. Nguyen, P. A. Bandettini, The role of the human amygdala in the production of conditioned fear responses. *NeuroImage*, **26,** 1193-1200 (2005).

51. D. C. Knight, H. T. Nguyen, P. A. Bandettini, The role of awareness in delay and trace fear conditioning in humans. *Cognitive, Affective, and Behavioral Neuroscience*, 5 (2), 158-163 (2006).

52. N. Kriegeskorte, R. Goebel, P. Bandettini, Information-based functional brain mapping. *Proc. Nat'l. Acad. Sci. USA*, 103, 3863-3868 (2006).

53. K. S. St. Lawrence, J. A. Frank, P. A. Bandettini, F. Q. Ye, Noise reduction in multi-slice arterial spin tagging imaging. Magnetic Resonance in Medicine. Magn. Reson. Med. 53, 735-738 (2005).

54. N. Petridou, D. Plenz, A. C. Silva, J. Bodurka, M. Loew, P. A. Bandettini, Direct Magnetic Resonance detection of neuronal electrical activity, *Proc. Nat'l. Acad. Sci. USA*. 103, 16015-16020 (2006).

55. J. Illes, M. P. Kirschen, E. Edwards, L. R. Stanford, P. Bandettini, D. B. Michael, P. J. Ford, G. H. Glover, J. Kulynych, R. Macklin, S. M. Wolf, and The working group on incidental findings in brain imaging research, Handling incidental findings in brain imaging research: early conclusions in and ongoing debate. Science 311, 783-784 (2006).

56. R. M. Birn, J. B. Diamond, M. A. Smith, P. A. Bandettini, Separating respiratory variation-related fluctuations from neuronal activity-related fluctuations in fMRI, NeuroImage 31, 1536-1548 (2006)

57. P. A. Bandettini, Functional MRI Today, International Journal of Psychophysiology 63, 138-145 (2007)

58. P. S. F. Bellgowan, P. A. Bandettini, P. van Gelderen, A. Martin, J. Bodurka, Improved BOLD detection in the medial temporal region using parallel imaging and voxel volume reduction. *NeuroImage*, **29,** 1244-1251 (2006)

59. H. R. Heekeren, S. Marrett, D. A. Ruff, P. A. Bandettini, L. G. Ungerleider, Involvement of human left dorsolateral prefrontal cortex in perceptual decision-making is independent of response modality. *Proc. Nat'l. Acad. Sci. USA*, 103, 10023-10028 (2006)

60. J. Bodurka, F. Ye, N Petridou, K. Murphy, P. A. Bandettini, Mapping the MRI voxel volume in which thermal noise matches physiological noise – implications for fMRI. *NeuroImage,* **34**, 542-549 (2007)

61. K. Murphy, J. Bodurka, P. A. Bandettini, How long to scan? The relationship between fMRI temporal signal to noise and the necessary scan duration. *NeuroImage*, **34**, 565-574 (2007)

62. N. Kriegeskorte, P. Bandettini, Analyzing for information, not activation, to exploit high-resolution fMRI, *NeuroImage*, **38,** 649-662 (2007)

63. J. E. Dunsmoor, P. A. Bandettini, D. C. Knight, Impact of continuous versus intermittent CS-UCS pairing on human brain activation during Pavlovian fear conditioning. *Behavioral Neuroscience,* **121,** 635-642 (2007)

64. M. Maieron, G. D. Iannetti, J. Bodurka, I. Tracy, P. Bandettini, C. Porro, Functional responses in the human spinal cord during willed motor actions: evidence for side- and rate- dependent activity. *Journal of Neuroscience* 27:4182-4190, (2007)

65. N. Kriegeskorte, P. Bandettini, Combining the tools: activation- and information-based fMRI analysis. *NeuroImage,* **38,** 666-668 (2007)

66. R. M. Birn, M. A. Smith, T. B. Jones, P. A. Bandettini, The respiration response function: the temporal dynamics of fMRI signal fluctuations related to changes in respiration. *NeuroImage*, **40**, 644-654 (2008)

67. J. E. Dunsmoor, P. A. Bandettini, D. A. Knight, Neural correlates of unconditioned response diminution during Pavlovian conditioning. *NeuroImage* **40,** 811-817 (2008)

68. A. Tuan, R. M. Birn, P. A. Bandettini, G. M. Boynton, Differential transient MEG and fMRI responses to visual stimulation onset rate. *International Journal of Imaging Systems and Technology* 18, 17-28 (2008)

69. R. M. Birn, K. Murphy, P. A. Bandettini, The effect of respiration variations on independent component analysis of resting state functional connectivity. *Human Brain Mapping* **29,** 740-750 (2008)

70. P. A. Bandettini, E. Bullmore, Endogenous oscillations and networks in functional MRI, *Human Brain Mapping* **29**, 737-739 (2008)

71. N. Kriegeskorte, NJ. Bodurka, and P. Bandettini, Artifactual time course correlations in echo-planar fMRI with implications for studies of brain function. *International Journal of Imaging Systems and Technology,* 18 (5-6), 345-349 (2008)

72. N. Kriegeskorte, M. Mur, D. Ruff, R. Kiani, J. Bodurka, H. Esteky, K. Tanaka, P. Bandettini, Matching categorical object representations in inferotemporal cortex of man and monkey. Neuron 60, 1-16 (2008)

73. T. B. Jones, P. A. Bandettini, R. M. Birn, Integration of motion correction and physiological noise regression in fMRI, NeuroImage 42, 582-590 (2008)

74. P. A. Bandettini, What's New in Neuroimaging Methods?, Annals of the NY Academy of Sciences: The Year in Cognitive Neuroscience 2009, 260-293 (2009)

75. K. Murphy, R. M. Birn, D. A. Handwerker, T. B. Jones, P. A. Bandettini, The impact of global signal regression on resting state correlations: are anti-correlated networks introduced? NeuroImage 44, 893-905 (2008)

76. J. Illes, M. P. Kirschen, E. Edwards, P. Bandettini, M.K. Cho, P. J. Ford, G. H. Glover, J. Kulynych, R. Macklin, D. B. Michael, S. M. Wolf, T. Grabowski, B. Seto, Practical approaches to incidental findings in brain imaging research, Neurology, 70, 384-390 (2008).

77. P. T. Fox, E. Bullmore, P. A. Bandettini, J. L. Lancaster, Protecting peer-review: correspondence chronology and ethical analysis regarding Logothetis vs. Shmuel and Leopold, *Human Brain Mapping.*30, 347-354 (2009)

78. J. D. Van Horn, P. A. Bandettini, K. Cheng, G. F. Egan, A. Stenger, S. Strother, A. W. Toga, New horizons for the next era of human brain imaging, cognitive, and behavioral research: pacific rim interactivity. Brain Imaging and Behavior 2, 227-231 (2008).

79. M. Mur, P. A. Bandettini, N. Kriegeskorte, Revealing representational content with pattern-information fMRI – an introductory guide. Social, Cognitive, and Affective Neuroscience 4, 101-109 (2009).

80. N. Kriegeskorte, M. Mur, P.A. Bandettini, Representational similarity analysis - connecting the branches of systems neuroscience. Frontiers in Systems Neuroscience. doi:10.3389/neuro.06.004.2008 (2008)

81. D. C. Knight, J. S. Waters, P. A. Bandettini, Neural substrates of explicit and implicit fear memory, NeuroImage, 45, 208-214 (2009).

82. A. G. Thomas, S. Marrett, Z. S. Saad, D. A. Ruff, A. Martin, P. A. Bandettini, Functional but not structural changes associate with learning: an exploration of longitudinal voxel based morphometry (VBM). NeuroImage 48, 117-125 (2009).

83. D. C. Knight, N. S. Waters, M. K. King, P. A. Bandettini, Learning related diminution of unconditioned SCR and fMRI signal responses. NeuroImage 49, 843-848 (2010).

84. R. M. Birn, K. Murphy, D. A. Handwerker, P. A. Bandettini, fMRI in the presence of task-correlated breathing variations, NeuroImage 47, 1092-1104 (2009)

85. P. T. Fox, E. Bullmore, P. A. Bandettini, J. L. Lancaster, Editorial reply to Jackle, Human Brain Mapping, 30: 1936-1937 (2009).

86. P. A. Bandettini, Seven Topics in Functional Magnetic Resonance Imaging. Journal of Integrative Neuroscience, J. Integr. Neurosci, 8 (3) 371 – 403 (2009).

87. T. B. Jones, P. A. Bandettini, L. Kenworthy, L. K. Case, S. C. Milleville, A. Martin, R. Birn, Sources of group differences in functional connectivity: an investigation applied to autism spectrum disorder. NeuroImage 49 (1) 401-414 (2010)

88. 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).

89. 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).

90. 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).

91. 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).

92. 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)

93. 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)

94. 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).

95. 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)

96. 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)

97. 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)

98. 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)

99. 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)

100. D. A. Handwerker, V. Roopchansingh, P. A. Bandettini, Periodic changes in brain connectivity, NeuroImage 63, pp. 1712-1719 (2012)

101. 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).

102. 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)

103. P. A. Bandettini, Functional MRI: a confluence of fortunate circumstances. NeuroImage 61, pp. A3-A11 (2012)

104. 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)

105. 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).

106. 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).

107. P. A. Bandettini, Twenty years of Functional MRI: The Science and the Stories. NeuroImage 62, pp. 575-588 (2012)

108. 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)

109. 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)

110. 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).

111. 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)

112. 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)

113. 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).

114. P. A. Bandettini, The BOLD plot thickens: sign- and layer-dependent hemodynamic changes with activation. Neuron 76, pp. 468-469 (2012).

115. 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)

116. 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).

117. K. Murphy, R. M. Birn, P. A. Bandettini, Resting state fMRI confounds and cleanup, NeuroImage, 80, pp. 349-359 (2013).

118. 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).

119. 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).

120. 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) .

121. 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).

122. 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).

123. 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).

124. 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)

125. 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)

126. 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

127. 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 characeterization of rapid anterior hippocampal volume increase associated with aerobic exercise, NeuroImage, 131, pp. 162-170 (2016)

128. 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).

129. 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).

130. P. A. Bandettini, Neuronal or Hemodynamic? Grappling with the functional MRI signal, Brain Connectivity, 4, (7), p.p. 487-498 (2014). .

131. 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).

132. 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).

133. 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).

134. 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).

135. 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: 10.1007s11682-014-9346-4.

136. 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).

137. 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).

138. J. Gonzalez-Castillo, P. A. Bandettini, What cascade spreading models can teach us about the brain, Neuron, 86, pp. 1327-1329 (2015).

139. 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).

140. 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).

141. 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)

142. 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).

143. 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).

144. 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).

145. 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)

146. 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).

147. 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).

148. 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, 180B, p.p. 495-504 (2017).

149. J. Gonzalez-Castillo, P. A. Bandettini, Task-based dynamic functional connectivity: recent findings and open questions, NeuroImage, 180, pp. 526-533 (2018).

150. 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).

151. 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).

152. 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)

153. 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).

154. Y. Chai, J. Sheng, P. A. Bandettini, J.-H. Gao, Frequency-dependent tACS modulation of BOLD signal during rhythmic visual stimulation, Human Brain Mapping, 39 (5), p.p. 2111-2120 (2018).

155. 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, 115 (9) p.p. E2015-E2114 (2018).

156. M. Saggar, 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 number 1399 (2018).

157. E. S. Finn, P. R. Corlett, G. Chen, P. A. Bandettini, R. T. Constable, Trait-level paranoia shapes inter-subject synchrony in brain activity during an ambiguous social narrative, Nature Communications (9) (2018).

158. Ş. B. Demiral, D. Tomasi, J. Sarlls, H. Lee, C. E. Wiers, A.Zehra, T. Srivastava, K. Ke, E. Shokri-Kojori, C. R. Freeman, E. Lindgren, V. Ramirez, G. Miller, P. Bandettini, S. Horovitz, G.-J. Wang, H. Benveniste, N. D. Volkow, Apparent diffusion coefficient changes in human brain during sleep–Does it inform on the existence of a glymphatic system? NeuroImage, 185, p.p. 263-273 (2019).

159. H.-C. Kim, P. A. Bandettini, J.-H. Lee, Deep neural network predicts emotional responses of the human brain from functional magnetic resonance imaging. NeuroImage, 186, p.p. 607-627 (2019).

160. S. Torrisi, G. Chen, D. Glen, 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).

161. 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 fMRI in humans at 9.4T: Capabilities and challenges. NeuroImage, 178, p.p. 769-779 (2018).

162. 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, p.p. 1-37 (2018).

163. P. Kundu, B. E. 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, 38 (14) p.p. 3559-3570 (2018).

164. H. Xie, C. Y. Zheng, D. A. Handwerker, P. A. Bandettini, V. D. Calhoun, S. Mitra, J. Gonzalez-Castillo, Efficacy of different dynamic functional connectivity methods to capture cognitively relevant information, NeuroImage, 188, p.p. 502-514 (2019)

165. H. Xie, V. D. Calhoun, J. Gonzalez-Castillo, E. Damaraju, R. Miller, P. A. Bandettini, S. Mitra, Whole-brain connectivity dynamics reflect both task-specific and individual-specific modulation: a multitask study, NeuroImage, 180, p.p. 495-504 (2018).

166. P. McClure, C. Y. Zheng, J. Kaczmarzyk, J. Rogers-Lee, S. Ghosh, D. Nielson, P. A. Bandettini, F. Pereira, Distributed weight consolidation: A brain segmentation case study, Advances in Neural Information Processing Systems, p. p. 4097-4107, (2018).

167. Y. Chai, D. A. Handweker, S. Marrett, J. Gonzalez-Castillo, E. P. Merriam, A. Hall, P. J. Molfese, P. A. Bandettini, Visual temporal frequency preference shows a distinct cortical architecture using fMRI. NeuroImage 197, 13-23 (2019).

168. Y. Yu, L. Huber, J. Yang, D. C. Jangraw, D. A. Handwerker, P. J. Molfese, G. Chen, Y. Ejima, J. Wu, P. A. Bandettini, Layer-specific activation of sensory input and predictive feedback in the human primary somatosensory cortex. Science advances 5(5), eaav9053 (2019).

169. G. Chen, P. A. Taylor, X. Qu, P. J. Molfese, P. A. Bandettini, R. W. Cox, E. S. Finn, Untangling the relatedness among Correlations, Part III: Inter-subject correlation analysis through Bayesian multilevel modeling for naturalistic scanning, bioRxiv, 655738 (2019)

170. C. C. Gaudes, S. Moia, P. Pawar, P. A. Bandettini, J. Gonzalez-Castillo, A deconvolution algorithm for multi-echo functional MRI: Multi-echo sparse paradigm free mapping, NeuroImage, 202 (2019)

171. J. Gonzalez-Castillo, C. Caballero-Gaudes, N. Topolski, D. Handwerker, F. Pereira, P. Bandettini, Imaging the spontaneous flow of thought: distinct periods of cognition contribute to dynamic functional connectivity during rest. NeuroImage, 202, 116-129(2019).

172. L. Huber, E. S. Finn, D. A. Handwerker, M. Boenstrup, D. Glen, S. Kashyap, D. Ivanov, N. Petridou, S. Marrett, J. Goense, B. Poser, P. A. Bandettini, Sub-millimeter fMRI reveals multiple topographical digit representations that form action maps in human motor cortex, NeuroImage, 116828 (2020).

173. E. S. Finn, L. Huber, D. C. Jangraw, P. A. Bandettini, Layer-dependent activity in human prefrontal cortex during working memory, Nature Neuroscience 22 (10), 1687-1695 (2019)

174. P. McClure, N. Rho, J. A. Lee, J. R. Kaczmaryzyk, C. Zheng, S. S. Gosh, D. Nielson, A. Thomas, P. Bandettini, F. Pereira, Knowing what you know in brain segmentation using Bayesian deep neural networks. Frontiers in neuroinformatics 13, 67(2019)

175. L. Huber, B. A. Poser, P. A. Bandettini, K. Arora, K. Wagstyl, S. Cho, J. Goense, N. Nothnagel, A. T. Morgan, J. Van Den Hurk, R. C. Reynolds, D. R. Glen, R. Goebel, O. F. Gulban, LAYNII: A software suite for layer-fMRI, BioRxiv (2020).

176. J. Yang, P. J. Molfese, Y. Yu, D. H. Handwerker, G. Chen, P. A. Taylor, Y. Ejima, J. Wu, P. A. Bandettini, Different activation signatures in the primary sensorimotor and higher-level regions for haptic three-dimensional curved surface exploration. BioRxiv, (2020).

177. E. S. Finn, P. A. Bandettini, Movie-watching outperforms rest for functional connectivity-based prediction of behavior, BioRxiv, (2020).

178. Y. Chai, L. Li, L. Huber, B. A. Poser, P. A. Bandettini, Integrated VASO and perfusion contrast: A new tool for laminar functional MRI, NeuroImage, 207, 116358 (2020).

179. E. S. Finn, E. Glerean, A. Y. Khojandi, D. Nielson, P. J. Molfese, D. A. Handwerker, P. A. Bandettini, Idiosynchrony: From shared responses to individual differences during naturalistic neuroimaging, NeuroImage, 215, 116828 (2020).

180. H. J. Jo, R. C. Reynolds, S. J. Gotts, D. A. Handwerker, I. Balzekas, A. Martin, R. W. Cox, P. A. Bandettini, Fast detection and reduction of local transient artifacts in resting-state fMRI, Computers in Biology and Medicine, 103742 (2020).

181. L. Huber, E. S. Finn, Y. Chai, R. Goebel, R. Stimberg, T. Stocker, S. Marrett, K. Uludag, S.-G. Kim, S. Han, P. A. Bandettini, Layer-dependent functional connectivity methods, Progress in Neurobiology, 101835 (2020).

182. G. Chen, P. A. Taylor, X. Qu, P. J. Molfese, P. A. Bandettini, R. W. Cox, E. S. Finn, Untangling the relatedness among correlations, part III: inter-subject correlation analysis through Bayesian multilevel modeling for naturalistic scanning. NeuroImage, 216, 116474 (2020).

183. E. S. Finn, L. Huber, P. A. Bandettini, Higher and Deeper: Bringing Layer fMRI to association cortex, Progress in Neurobiology, 2020, doi.org, 10.1016, j.pneurobio.2020.101930.

184. Handwerker DA, Ianni G, Gutierrez B, Roopchansingh V, O'Connell K, Balderston N, Chen G, Bandettini PA, Ungerleider LG, Pitcher D, Theta-burst TMS to the posterior superior temporal sulcus decreases resting-state fMRI connectivity across the face processing network, Network Neuroscience, 1-15, 2019.

185. Molfese PJ, Glen D, Mesite L, Cox RW, Hoeft F, Frost SJ, Mencl WE, Pugh KR, Bandettini PA: The Haskins Pediatric Atlas: An MRI-Based Pediatric Template and Atlas. *Pediatr Radiol* [in press].

186. P. A. Bandettini, L. Huber, E. S. Finn, The promise and challenge of layer functional MRI for deep imaging, Current Opinion in Behavioral Sciences, (in press).

Book Chapters

1. P. A. Bandettini, E. C. Wong, J. R. Binder, S. M. Rao, A. Jesmanowicz, E. A. Aaron, T. F. Lowry, H. M. Forster, R. S. Hinks, J. S. Hyde, Functional MRI using the BOLD approach: applications, *in* "Diffusion and Perfusion Magnetic Resonance Imaging" (D. LeBihan, Ed.), p.335-349, Raven Press, New York, 1995.

2. P. A. Bandettini, J. R. Binder, E. A. DeYoe, S. M. Rao, A. Jesmanowicz, T. A. Hammeke, V. A. Haughton, E. C. Wong, J. S. Hyde, Functional MRI using the BOLD approach: dynamic characteristics and data analysis methods, *in* "Diffusion and Perfusion: Magnetic Resonance Imaging" (D. L. Bihan, Ed.), p.351-362, Raven Press, New York, 1995.

3. P. A. Bandettini, J. R. Binder, E. A. DeYoe, J. S. Hyde, Sensory activation - induced hemodynamic changes observed in the human brain with echo planar MRI, *in* "Encyclopedia of Nuclear Magnetic Resonance" (D. Grant, R. Harris, Eds.), p.1051-1056, John Wiley & Sons Ltd., New York, 1996.

4. P. A. Bandettini, E. C. Wong, Echo - planar magnetic resonance imaging of human brain activation, *in* "Echo Planar Imaging: Theory, Technique, and Application" (F. Schmitt, M. Stehling, R. Turner, Eds.), p.493-530, Springer - Verlag, Berlin, 1997.

5. P. A. Bandettini, E. C. Wong, Magnetic resonance imaging of human brain function: principles, practicalities, and possibilities, *in* "Neurosurgery Clinics of North America: Functional Imaging" (M. Haglund, Ed.), p.345-371, W. B. Saunders Co., 1997.

6. R. M. Birn, K. M. Donahue, P. A. Bandettini, Magnetic resonance imaging: principles, pulse sequences, and functional imaging, *in* "Biomedical Uses of Radiation" (W. Hendee, Ed.), Vol.1, Chapter 9. VCH-John Wiley and Sons, New York, 1999.

7. P. A. Bandettini, The temporal resolution of Functional MRI *in* "Functional MRI" (C. Moonen, and P. Bandettini., Eds.), p. 205-220, Springer - Verlag,. 1999.

8. E. C. Wong, P. A. Bandettini, Simultaneous acquisition of multiple forms of fMRI contrast *in* "Functional MRI" (C. Moonen, and P. Bandettini, Eds.), p. 183-192, Springer - Verlag, 1999.

9. P. A. Bandettini, R. M. Birn, K. M. Donahue, Functional MRI: background, methodology, limits, and implementation, *in* "Handbook of Psychophysiology" (J. T. Cacioppo, L. G. Tassinary, G. G. Berntson, Eds.), p. 978-1014, Cambridge University Press, New York, 2000.

10. E. Reiman, R. D. Lane, C. Van Petten, P. A. Bandettini, Positron emission tomography and functional magnetic resonance imaging, *in* "Handbook of Psychophysiology" (J. T. Cacioppo, L. G. Tassinary, G. G. Berntson, Eds.), p. 85-118, Cambridge University Press, New York, 2000.

11. P. A. Bandettini, fMRI: The spatial, temporal, and interpretative limits of functional MRI, *in* “Neuropsychopharmacology: The Fifth Generation of Progress.” (D. Charney, J. Coyle, K. Davis, C. Nemeroff, Eds.), p. 344-357, Lippencott Williams & Wilkins, in press.

12. P. A. Bandettini, Choosing the optimal pulse sequence for fMRI *in* “Functional Magnetic Resonance Imaging of the Brain: Methods for Neuroscience” (P. M. Matthews, P. Jezzard, A. Evans), p. 123-143, Oxford University Press, 2001.

13. P. A. Bandettini, Functional MRI *in* “Handbook of Neuropsychology” (F. Boller and J. Grafman, Eds.), Elsevier, 2002,.

14. T. A. Russell, F. Zelaya, R. A. Bressan, P. A. Bandettini, Functional Neuroimaging: an introduction to the technology, methodology, interpretation, and applications, *in* “Psychiatric Neuroimaging” (C. H. Y. Fu, C. Senior, T. A. Russell, D Weinberger, & R Murray, Eds.). p. 1-50, Dunitz Press, 2002

15. S.-G. Kim and P. A. Bandettini, Principles of Functional MRI, *in* "Functional MRI" (S.H. Faro and F.B Mohamed, Eds.), Spinger-Verlag, *(in press)*, 2005.

16. P. A. Bandettini, Functional MRI, *in* "Methods in Mind" (C. Senior, T. Russell, M. Gazzaniga, Eds.), *(in press)*, 2006.

17. Peter A. Bandettini, Principles of Functional MRI, *in* "Functional Neuroimaging of Neurologic Disorders" (F. Hillary, Ed), Guilford Press, *(in press)*, 2006. .

18. P. A. Bandettini, Functional MRI limitations and aspirations, in "Neural Correlates of Thinking" (Ernst Pöppel, Balázs Gulyas and Eduard Kraft, Eds), (in press), 2008

19. P. A. Bandettini, The Birth of FMRI at the Medical College of Wisconsin, in "Functional MRI" (Kamil Uludag and Kamil Ugurbil, Eds), (in press), 2011.

20. P. A. Bandettini and E. Wong, The future of Functional MRI, in "Functional MRI" (Kamil Uludag and Kamil Ugurbil, Eds), 2011

21. P. A. Bandettini, Functional MRI discovery and development, Macmillan Reference's Discoveries in Modern Science, 2014.

22. P. A. Bandettini and Tor Wager, Interpretation and analysis of the fMRI signal: brief overview and leading research in the united states and Europe, WTEC/NSF Neuroimaging in Europe, Asia, and Australia report 2014.

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

24. P. A. Bandettini and Hanzhang Lu, Magnetic Resonance Methodologies, Neurobiology of Mental Illness (Eric Nestler, Dennis Charney, Eds.) 2017.

Books

1. 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).
2. Functional MRI, (C. T. W. Moonen, P. A. Bandettini, Eds.), Springer - Verlag, Berlin (1999).
3. fMRI, the MIT Press Essential Knowledge Series (2020).

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. March, 1991 "Non-standard uses of echo-planar imaging" Biophysics Dept., MCW
2. Dec, 1991 University of Chicago Hospital, Chicago, IL
3. March, 1992 Dissertation Outline Defense, Milwaukee, WI
4. June, 1992 University of Chicago Hospital, Chicago, IL
5. July, 1992 GE Medical Systems, Milwaukee, WI
6. Oct, 1992 McKennon Hospital, Sioux Falls, SD
7. Oct, 1992 Charter Hospital, Sioux Falls, SD
8. Oct, 1992 Froedert Memorial Hospital, Milwaukee, WI
9. Nov, 1992 Wisconsin Neurosurgeons Annual Meeting, Milwaukee, WI
10. Dec, 1992 Milwaukee County Hospital, Milwaukee, WI
11. April, 1993 Seventeenth Annual Great Lakes Biomedical Conference, Racine, WI
12. May, 1993 Medical College of Wisconsin Council Meeting, Milwaukee, WI
13. June, 1993 Functional MRI of the Brain, Arlington, VA
14. Nov, 1993 First Midwest Course on fMRI, Milwaukee, WI
15. Sept, 1993 University of California, Los Angeles, Los Angeles, CA
16. Oct, 1993 University of Texas Health Science Center, San Antonio, TX
17. Oct, 1993 Teknisk Aften, Oslo Norway
18. Nov, 1993 National Institutes of Health, Bethesda, MD
19. Dec, 1993 Stanford University, Palo Alto, CA
20. Dec, 1993 University of Wisconsin, Madison, Madison, WI
21. Dec, 1993 MGH - NMR Center, Charlestown, MA
22. Feb, 1994 Michigan State University, East Lansing, MI
23. June, 1994 University of Florida, Gainesville, FL
24. Aug, 1994 Society of Magnetic Resonance mini – cat. course, San Francisco, CA
25. Sept, 1994 Macarthur Foundation, Chicago, IL
26. Oct, 1994 Ph. D. Dissertation Defense, Biophysics Research Institute, Medical College of Wisconsin, Milwaukee, WI
27. Nov, 1994 Second Midwest Course on fMRI, Madison, WI
28. Jan, 1995 McDonnell Pew Foundation, Tucson, AZ
29. Feb, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
30. April, 1995 Marquette University Physics Dept., Milwaukee, WI
31. May, 1995 Washington University School of Medicine, St. Louis, MO
32. May, 1995 M.D. Anderson Cancer Center, Houston, TX
33. June, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
34. Sept. 1995 University of Arizona, Tucson, AZ
35. Oct, 1995 MGH fMRI course, MGH-NMR Center, Charlestown, MA
36. Jan, 1996 Research Institute of Brain and Blood Vessels, Akita, Japan
37. Jan, 1996 Human Brain Project, Wakula Springs, FL
38. Feb, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
39. Feb, 1996 Cornell University Medical Center, New York, NY
40. June, 1996 Santa Fe Institute, Complex Systems Summer School, Santa Fe, NM
41. June, 1996 fMRI2Day Workshop, Human Brain Mapping Meeting, Boston, MA
42. June, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
43. Aug, 1996 University of Rochester, Rochester, NY
44. Sept, 1996 GE Medical Systems

45. Sept, 1996 Biophysics Research Institute, Milwaukee, WI
46. Oct, 1996 Norwegian Medical Physics Society Meeting, Oslo, Norway
47. Oct, 1996 MGH fMRI course, MGH-NMR Center, Charlestown, MA
48. Jan, 1997 University of Arizona, Tucson, AZ
49. Jan, 1997 University of California, San Diego, San Diego, CA
50. Feb, 1997 fMRI Symposium, Tsukuba, Japan
51. Feb, 1997 Hitachi Corporation, Tokyo, Japan
52. Feb, 1997 Marquette University Biomedical Engineering Dept., Milwaukee, WI
53. March, 1997 Third Midwest Course on fMRI, Minneapolis, MN
54. May, 1997 MGH traveling fMRI course, Perth, Australia
54. May, 1997 First Norwegian Symposium on fMRI of the Brain, Bergen, Norway
55. June, 1997 Functional MRI Conference, Trani, Italy
56. July, 1997 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
57. July, 1997 MGH traveling fMRI course, Oxford, England
58. Sept, 1997 Arterial Spin Labeling Conference, NIH, Bethesda, MD
59. Sept, 1997 Georgetown University, Washington D. C.
60. Oct, 1997 The Roland Institute, Cambridge, MA
61. Oct, 1997 MGH fMRI course, MGH-NMR Center, Charlestown, MA
62. Oct, 1997 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
63. Dec, 1997 MGH traveling fMRI course, Caen, France
64. Feb, 1998 International Neuropsychology Society, Honolulu, HI
65. Feb, 1998 MGH Training Workshop Lectures, Kauai, HI
66. April, 1998 MGH traveling fMRI course, Melbourne, Australia
67. May, 1998 Functional Brain Imaging Workshop, Helsinki, Finland
68. June, 1998 Humboldt University, Charite Hospital, Berlin, Germany
69. June, 1998 National Institutes of Health, Bethesda, MD
70. July, 1998 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
71. Aug, 1998 Biomag '98, Sendai, Japan
72. Oct, 1998 Functional MRI Workshop Lectures, Rome, Italy
73. Oct, 1998 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
74. Dec, 1998 Neuropsychopharmacology meeting lecture, Puerto Rico
75. Feb, 1999 Future of fMRI lecture at MCW.
76. June, 1999 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
77. June, 1999 OHBM educational course lecture, Duesseldorf, Germany
78. Aug, 1999 Cold Spring Harbor course on Brain Mapping, Cold Spring Harbor, NY
79. Sept. 1999 NIMH Intramural Retreat Lecture
80. Oct, 1999 Integrative Neuroscience Seminar, Building 49, NIH
81. Oct, 1999 NIH FAES course lecture
82. Nov, 1999 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
83. Jan, 2000 Yale School of Medicine, New Haven, Connecticut
84. Feb, 2000 University of British Columbia, Vancouver, BC
85. Feb, 2000 Purdue University, West Lafayette, Indiana
86. Feb, 2000 MCW graduate course on fMRI contrast, Milwaukee, WI
87. Feb, 2000 Marquette University Physics Department, Milwaukee, WI
88. May, 2000 Workshop on neurovascular coupling at Ringberg Castle, Germany
89. June, 2000 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI

90. June, 2000 OHBM course on fMRI, San Antonio, TX
91. June, 2000 MGH-APA fMRI course, MGH-NMR Center, Charlestown, MA
92. July, 2000 Lecture for Grafman group, NINDS, NIH Bethesda, MD
93. Oct, 2000 3T Opening Lecture, Melbourne, Australia
94. Oct, 2000 APA - fMRI Workshop, San Diego, CA
95. Oct, 2000 Workshop on Understanding the BOLD Phenomena,. Chapel Hill, NC.
96. April, 2001 fMRI Experience, Kings College, London, UK
97. May, 2001 William and Mary University, Williamsburg, VA
98. May, 2001 MCW fMRI course, Medical College of Wisconsin, Milwaukee, WI
99. June, 2001 Workshop on neurovascular coupling, Tokyo, JP
100. June, 2001 OHBM education program, Brighton, UK
101. June, 2001 Brindizzi, Italy
102. June, 2001 3T scanner inauguration meeting, San Giovanni Rotundo, Italy
103. June, 2001 MGH-APA fMRI course, MGH-NMR Center, Charlestown, MA
104. July, 2001 FMRI database workshop, Dartmouth University, NH
105. Aug, 2001 International Cognitive Neuroscience Meeting, Beijing, China
106. Aug, 2001 Beijing Normal University, Beijing, China
107. Sept, 2001 University of Virginia, Charlottesville, VA
108. Sept, 2001 Uniformed Services University, Bethesda, MD
109. Oct, 2001 MCW fMRI course, Medical College of Wisc, Milwaukee, WI
110. Oct, 2001 Georgetown University, Washington DC
111. Jan, 2002 fMRI Training Course, University of Texas, Dallas
112. March, 2002 Yale University, New Haven, CT
113. March, 2002 MGH fMRI course, MGH-NMR Center, Charlestown, MA
114. April, 2002 Albert Einstein College of Medicine of Yeshiva University.
115. May, 2002 MCW fMRI course, MCW, Milwaukee, WI
116. May, 2002 FMRI Experience Conference, NIH, Bethesda, MD
117. June, 2002 “The Future of fMRI” OHBM 2002 Education Program, Sendai, JP.
118. June, 2002 MGH fMRI Course, MGH NMR Center, Charlestown, MA
119. June, 2002 Workshop on using fMRI and rehabilitation research. Sugarloaf Conference Center, Philadelphia, PA
120. July, 2002 FMRI database workshop, Dartmouth University, NH.
121. July, 2002 Summer School, Brain Sciences Institute, RIKEN, Tokyo, Japan
122. July, 2002 Beijing Normal University, Beijing, China
123. July, 2002 Key Laboratory of Cognitive Science, Chinese Academy of Sciences
124. Sept, 2002 West Virginia University, Morgantown, WV
125. Sept, 2002 Brainstorm 2002, Athens, Greece
126. Oct, 2002 MCW fMRI course, Milwaukee, WI
127. Oct, 2002 Functional MRI graduate course, MCW, Milwaukee, WI
128. Nov, 2002 UCLA Functional Brain Imaging Facility, LA, CA
129. Jan, 2003 Functional Imaging Laboratory, London, UK
130. Feb, 2003 NIH Cloisters, High School Teacher workshop,
131. March, 2003 Springdale High School, Silver Spring, MD
132. March, 2003 fMRI Experience V, Kings College London, England
133. April, 2003 LBC BSC Review presentation
134. May, 2003 Mitre Corporation, McClain, VA

135. May, 2003 MCW fMRI course, Milwaukee, WI
136. June, 2003 Ampere XI conference, Zakopane, Poland
137. June, 2003 OHBM 2003 morning symposium, New York
138. Aug, 2003 fMRI discussion group, NIH
139. Sept, 2003 Bio imaging Conference, Chieti, Italy
140. Sept, 2003 University of Udina, Italy
141. Oct, 2003 High Field Workshop, University of Minnesota
142. Oct, 2003 University of Wisconsin, Madison
143. Oct, 2003 MCW fMRI course, Milwaukee, WI
144. Oct, 2003 Georgetown University, Washington DC
145. Nov, 2003 C.O.R.E. talk, NIH
146. Jan, 2004 Rutgers University, NJ
147. Feb, 2004 32'nd Annual International Neuropsychological Meeting, Baltimore, MD.
148. March, 2004 National Academy of Sciences, Washington DC
149. March, 2004 NIMH Outreach Partnership Program Meeting
150. March, 2004 Presentation for Carmelite Priests
151. April, 2004 Third Int'l Symposium on Cognitive Neuroscience, Hong Kong, China
152. April, 2004 NIH Director's Council of Public Representatives (COPR) tour
153. May, 2004 26'th Int'l Symposium, Functional Neuroimaging: Methods and Clinical Applications, Montreal, CA.
154. June, 2004 MCW fMRI course, Milwaukee, WI
155. June, 2004 OHBM 2004 education program, Budapest
156. June, 2004 NIMH Extramural Neuroscience Seminar, Bethesda
157. June, 2004 The Workshop on Brain Imaging and Health Comm. Research, Bethesda
158. July, 2004 Gordon Conf: In Vivo MRI, Bates College, Maine
159. Sept, 2004 NIH extramural Inter-Institute Imaging Group, Bethesda
160. Nov, 2004 MCW fMRI course, Milwaukee, WI .
161. Nov, 2004 Max Plank fMRI school, Sorrento, Italy .
162. Jan, 2005 NIMH Outreach Partnership Program Meeting .
163. Jan, 2005 NINDS Incidental Findings Meeting, Bethesda, MD .
164. Feb, 2005 Functional MRI graduate course, MCW, Milwaukee, WI .
165. Feb, 2005 Marquette University Physics Department, Milwaukee, WI .
166. March, 2005 NIMH PI Retreat, FMRIF overview, Bethesda, MD
167. April, 2005 Brain Connectivity Meeting, Boca Raton, FL
168. April, 2005 University of Maastricht, The Netherlands
169. April, 2005 Seneca Valley High School, Germantown, MD .
170. April, 2005 Williamsport High School, Williamsport, MD
171. April, 2005 NIH Director's Council of Public Representatives (COPR) tour
172. May, 2005 ISMRM 2005 education program, Miami, FL
173. May, 2005 DIRP investigator seminar, NIH, Bethesda, MD
174. May, 2005 American Psychiatric Association Meeting, Atlanta, GA
175. June, 2005 Brain 2005, Amsterdam, The Netherlands
176. June, 2005 OHBM 2005 education program, Toronto, CA
177. June, 2005 MCW fMRI course, Milwaukee, WI
178. Aug, 2005 NSF Security Evaluation Workshop, Arlington, VA
179. Sept, 2005 The fMRI experience VII, Aston University, UK

180.	Oct, 2005	Tour talk to NIMH Outstanding Residents, NIH
181.	Nov, 2005	Krasnow Institute, George Mason University, Washington DC
182.	Dec, 2005	Neural Information Processing Systems Workshop, Whistler, BC
183.	Jan, 2006	NIH Monkey Journal Club
184.	Feb, 2006	NIH FMRI discussion group
185.	Feb, 2006	University of California San Diego, San Diego, CA
186.	March, 2006	SMRT President's Symposium, University of Virginia Medical Center
187.	April, 2006	NIH Monkey Journal Club
188.	April, 2006	GE CRADA talk, GE Medical Systems, Milwaukee
189.	May, 2006	MCW fMRI course, Milwaukee, WI
190.	June, 2006	OHBM 2005 education program, Florence, Italy
191.	June, 2006	Neural Correlates of Thinking, Elba, Italy
192.	Aug, 2006	fMRI Overview for Mark Hallett's group.
193.	Aug, 2006	West Potomac HS Area teachers meeting, Alexandria, VA.
194.	Sept, 2006	Workshop on Advanced fMRI in Ji-Nan, China
195.	Sept, 2006	Nicola Tesla Lecture, Mind and Brain V, Dubrovnik, Croatia.
196.	Nov, 2006	Max Plank fMRI school, Sorrento, Italy
197.	Dec, 2006	FMRIF Review Talk
198.	Jan, 2007	Presentation to the UGSP Scholars
199.	Jan, 2007	Stanford University, Palo Alto, CA
200.	Feb, 2007	MCW Graduate Course in fMRI, Talk 1, Milwaukee, WI
201.	March, 2007	Lake Bluff Grade School, Shorewood, WI
202.	March, 2007	Shorewood High School, Shorewood, WI
203.	March, 2007	MCW Graduate Course in fMRI, Talk 2, Milwaukee, WI
204.	April, 2007	NINDS Retreat, Arlie Conference Center, Arlie, VA
205.	April, 2007	NIDDK Obesity Research Conference, Bethesda, MD
206.	May, 2007	University of Wisconsin, Milwaukee, Milwaukee, WI
207.	June, 2007	MCW fMRI Course, Milwaukee
208.	June, 2007	OHBM advanced fMRI course motivation
209.	June, 2007	OHBM Meeting Wrap-up, Chicago, IL
210.	August, 2007	National Research Council, Washington DC
211.	August, 2007	MERGe summer series lecture, NIH, Bethesda, MD
212.	Oct, 2007	Parmenides Lecture, Lake Chiemsee, Germany
213.	Oct, 2007	Tour talk to NIMH Outstanding Residents, NIH
214.	Nov, 2007	Board of Scientific Counselors (BSC) Review lecture
215.	Dec, 2007	McGovern Institute, Boston, MA
216.	Jan, 2008	Georgetown University
217.	Jan, 2008	Sigma Xi physics society
218.	Feb, 2008	International Neuropsychology Society, Waikoloa, HI
219.	Feb, 2008	University of Michigan, MI
220.	Feb, 2008	Medical College of Wisconsin
221.	May, 2008	Indiana Neuroimaging Symposium, Indianapolis, IN
222.	April, 2008	Overview of fMRI at NIH to MD, Ph.D. students
223.	April, 2008	Fairhaven retirement community, Sykesville, MD
224.	May, 2008	ISMRM education program
225.	May, 2008	ISMRM symposium on unsolved problems

226.	July, 2008	MERGe summer series lecture, NIH, Bethesda, MD
227.	Sept, 2008	NIH Blueprint Workshop on Non-invasive Imaging
228.	Oct, 2008	University of Colorado, Boulder
229.	Oct, 2008	Obesity Workshop
230.	Nov, 2008	Tour talk Norwegian contingent
231.	Feb, 2009	Talk for French Embassy Representatives
232.	Feb, 2009	NIMH IRP Seminar
233.	Feb, 2009	Journal Club for fMRI discussion group
234.	March, 2009	MCW Graduate Course
235.	April, 2009	Sligo Creek Elementary School
236.	May, 2009	NINDS council meeting
237.	July, 2009	University of Pittsburgh, Pittsburgh, PA
238.	Aug, 2009	6'th annual IBMISP, Boston MA
239.	Sept, 2009	15'th BC-ISMRM, Cardiff, UK
240.	Oct, 2009	Washington VA Medical Center
241.	Oct , 2009	Outstanding fellow program tour, NIH
242.	Oct, 2009	University of Minnesota
243.	Oct, 2009	CNTRICS Tools for brain imaging, Baltimore, MD
244.	Nov, 2009	Georgia Tech University, Atlanta, GA
245.	Feb, 2010	University of Maryland, College Park, MD
246.	April, 2010	FIM lab meeting
247.	April, 2010	Montreal Neurological Institute, Montreal, Canada
248.	May, 2010	ISMRM education session, Stockholm, Sweden
249.	May, 2010	Erice, Sicily, Italy Workshop
250.	June, 2010	NIH fMRI summer course – History of fMRI
251.	June, 2010	NIH fMRI summer course – Basics of fMRI
252.	August, 2010	NIH fMRI summer course – Future of fMRI
253.	Sept, 2010	MCW workshop on resting state fMRI
254.	Sept, 2010	University of Tulsa, Tulsa, OK
255.	Oct, 2010	Outstanding Resident Talk and Tour, NIH
256.	Dec, 2010	Pacific Rim fMRI Meeting, Turtle Bay, Oahu, HI
257.	Jan, 2011	Sigma Xi Sigma of Washington DC area talk
258.	Feb, 2011	Functional MRI Core Facility Review Talk
259.	April, 2011	Sickle Cell Disease Advisory Committee, Bethesda, MD
260.	June, 2011	NIH fMRI Summer Course – History of fMRI
261.	June, 2011	NIH fMRI Summer Course – Basics of fMRI
262.	June, 2011	OHBM advanced fMRI course
263.	July, 2011	Carnegie Mellon University
264.	July, 2011	University of California, San Diego
265.	Sept, 2011	NIH fMRI summer course – contentious issues in fMRI
266.	Sept, 2011	NIH fMRI summer course – future of fMRI
267.	Sept, 2011	National Science Foundation – future of fMRI
268.	Nov, 2011	Washington DC VA hospital grand rounds
269.	Dec, 2011	Maastricht, The Netherlands
270.	Feb, 2012	ISMRM Functional Brain Imaging Workshop, Whistler, BC
271.	April, 2012	University of West Virginia – lecture 1

272.	April, 2012	University of West Virginia – lecture 2
273.	June, 2012	Institute of Psychology, China
274.	June, 2012	NIH fMRI summer course – history of fMRI
275.	June, 2012	NIH fMRI summer course – fMRI development
276.	July, 2012	UCLA workshop – improvements, optimizations, and limits of fMRI
277.	July, 2012	UCLA workshop – 20 years of fMRI
278.	Aug, 2012	NIH fMRI summer course – contentious issues in fMRI
279.	Aug, 2012	NIH fMRI summer course – future of fMRI
280.	Sept, 2012	Resting State Workshop, Magdeburg, Germany
281.	Oct, 2012	Congress of Neurosurgery, Chicago
282.	Nov, 2012	BSC review talk
283.	Dec, 2012	Yale University, New Haven, CT
284.	Dec, 2012	MGH Resting State Course
285.	Jan, 2013	Talk to Biochemistry and Biophysics Center, NHLBI
286.	Jan, 2013	Talk to NIMH leadership individual subject assessment
287.	Feb, 2013	IEEE Medical Imaging Conference, Orlando, FL
288.	March, 2013	Genetics in fMRI Conference, Turtle Bay, Oahu, HI
289.	April, 2013	Presidential Commission for the Study of Bioethical Issues
290.	April, 2013	University of Toronto, Baycrest Medical Center, Canada
291.	June, 2013	NIH fMRI summer course – history of fMRI
292.	June, 2013	NIH fMRI summer course – fMRI contrast/development
293.	Aug, 2013	NIH fMRI summer course – individual subjects
294.	Aug, 2013	NIH fMRI summer course – contentious issues in fMRI
295.	Sept, 2013	Outstanding Residents Tour Talk, NIH
296.	Oct, 2013	Medical College of Wisconsin, Milwaukee, WI
297.	Oct, 2013	Marquette University, Milwaukee, WI
298.	Oct, 2013	MGH Resting State Course
299.	Nov, 2013	Siemens online presentation
300.	Dec, 2013	Fort Dietrich, Frederick, MD
301.	Jan, 2014	UC Irvine, Irvine, CA
302.	Feb, 2014	Max Planck Institute, Leipzig
303.	Feb, 2014	Burning Tree Elementary, Lunch with a Scientist
304.	March, 2014	Tour talk for Francis Collins
305.	May, 2014	Opening symposium, Maastricht Brain Imaging Center
306.	June, 2014	NIH fMRI summer course - History of fMRI
307.	June, 2014	NIH fMRI summer course - Contrast and Limits in Resolution in fMRI
308.	June, 2014	ISMRM workshop on fMRI, Charleston, SC
309.	July, 2014	NIH fMRI summer course – fMRI paradigm designs and processing
310.	July, 2014	NIH fMRI summer course – fMRI on individual subjects
311.	Aug, 2014	NIH fMRI summer course – fMRI methods that have not caught on
312.	Aug, 2014	NIH fMRI summer course – contentious issues in fMRI
313.	Sept, 2014	Talk to NIH residents
314.	Sept, 2014	NIH fMRI summer course – the future of fMRI
315.	Sept, 2014	Resting State Workshop, MIT, Boston, MA
316.	Oct, 2014	Biophysics Department, MCW, Milwaukee, WI
317.	Oct, 2014	Grand Rounds, Gastroenterology Department, MCW, Milwaukee, WI

318.	Oct, 2014	Workshop of the Cuban Neuroscience Center, Havana, Cuba
319.	Oct, 2014	Maryland Judicial Institute Course, Annapolis
320.	Nov, 2014	NSF Workshop, Arlington, VA
321.	Dec, 2014	University of California, Irvine
322.	Jan, 2015	University of Arizona, Tucson
323.	Feb, 2015	University of Southern California, Los Angeles, CA
324.	April, 2015	NeuroHIV Interest Group, NIH
325.	April, 2015	Take your child to work day, NIH
326.	May, 2015	MGH multi-modal fMRI course, MGH
327.	May, 2015	MGH Martinos Center Brainmap Lectrue, Boston, MA
328.	June, 2015	NIH fMRI summer course – course introduction and history of fMRI
329.	June, 2015	NIH fMRI summer course – temporal and spatial resolution
330.	June, 2015	Hawaii BrainSTIM workshop, Honolulu, HI
331.	July, 2015	NIH fMRI summer course – fMRI paradigms and processing methods.
332.	July, 2015	NIH fMRI summer course – fMRI methods that never caught on
333.	Aug, 2015	SAMSI workshop, Charlotte, NC
334.	Sept, 2015	NIH fMRI summer course – contentious issues and future of fMRI
335.	Sept, 2015	Presentation at Stein Lab at NIDA, Baltimore, MD
336.	Sept, 2015	Core Facility BSC, Bethesda, MD
337.	Oct, 2015	Talk to Neuroinformatics Core, NIH, Bethesda, MD
338.	Oct, 2015	Stanford University, Stanford, CA
339.	Nov, 2015	MGH connectivity course, Martinos Center, Boston Navy Yard, MA
340.	Feb, 2016	International Neuropsychological Society Workshop, Boston, MA
341.	Feb, 2016	International Neuropsychological Society Plenary, Boston, MA
342.	April, 2016	Fourth Annual Maryland Neuroimaging retreat, Baltimore, MD
343.	April, 2016	Neuroscience Symposium, George Mason University, MD
344.	May, 2016	NIH fMRI summer course – History of fMRI
345.	May, 2016	NIH fMRI summer course – Spatial and Temporal Limits of fMRI
346.	June, 2016	NIH fMRI summer course – Paradigms and Processing
347.	July, 2016	fMRI Course - fMRI methods that have not caught on
348.	Aug, 2016	NIMH translational Neuropsychopharmacology Task Force Lecture
349.	Aug, 2016	fMRI Course – future of fMRI and wrapup.
350.	Sept, 2016	FMRIF BSC, Bethesda, MD
351.	Dec, 2016	Emory & Georgia Tech, Atlanta, GA
352.	Feb, 2017	Purdue University, West Lafayette, IN
353.	Feb, 2017	Indiana University, Indianapolis, IN
354.	March, 2017	University of Florida, Gainesville, FL
355.	March, 2017	NIMH Investigator Series talk on Sharing, Bethesda, MD
356.	May, 2017	University of North Carolina, Charlotte, NC
357.	June, 2017	OHBM Symposium on the History of fMRI, Vancourver, BC
358.	June, 2017	NIH fMRI summer course – History of fMRI and neuroimaging
359.	June, 2017	NIH fMRI summer course – fMRI Limits, Paradigms and Processing
360.	Sept, 2017	NIH fMRI summer course – the future of fMRI
361.	Oct, 2017	Bioinformatics and Bioengineering Conference, Herndon, VA
362.	Nov, 2017	Korean Academy of Science and Technology, Seoul, South Korea
363.	Nov, 2017	Sungkyunkwan University, Seoul, South Korea

364.	Nov, 2017	Korea University, Seoul, South Korea
365.	Nov, 2017	Korean Human Brain Mapping Meeting, Seoul, South Korea
366.	Nov, 2017	Peking University, Beijing, China
367.	April, 2018	University of Illinois, Urbana-Champaign
368.	April, 2018	Copenhagen University Hospital Hvidovre, Copenhagen, Denmark
369.	June, 2018	NIH fMRI Summer Course - History and Basics of fMRI
370.	June, 2018	Non-standard brain imaging analysis workshop, Singapore
371.	Aug, 2018	National Student Leadership Conference, American University, Wash DC.
372.	Aug, 2018	NIH fMRI Summer Course – The Future of NeuroImaging
373.	Sept, 2018	Biennial Resting State Conference, Montreal, CA
374.	Nov, 2018	Radiology Grand Rounds, NIH
375.	Dec, 2018	Milwaukee Catholic Home, Milwaukee, WI
376.	Feb, 2019	Overview of fMRI to visiting HS students, NIH
377.	March, 2019	Medical University of South Carolina, Charlotte, SC
378.	March, 2019	Cognitive Neuroscience Society Symposium, San Francisco, CA
379.	April, 2019	National Academy of Sciences Symposium, Washington DC
380.	May, 2019	University of Wisconsin, Milwaukee, WI
381.	June, 2019	Hemodynamic Controversies, NIH Neuroimaging Course, NIH
382.	June 2019	Curious contrasts other than BOLD, NIH Neuroimaging Course, NIH
383.	July, 2019	German Center for Neurodegenerative Diseases, Bonn, Germany
384.	July 2019	Influences of fMRI, NIH Neuroimaging Course, NIH
385.	July 2019	Clinical Use of fMRI? NIH Neuroimaging Course, NIH
386.	Sept, 2019	Japanese Meeting for Human Brain Imaging Keynote, Tokyo, JP
387.	Sept, 2019	Japanese Meeting for Human Brain Imaging Abstract, Tokyo, JP
388.	Sept, 2019	University of Osaka, JP
389.	Sept, 2019	4th ICP Symposium on Physiological Brain Imaging, JHU, Baltimore
390.	Sept, 2019	Core Facility BSC talk
391.	Oct, 2019	IBS Conference on Neuroimaging, Seoul, South Korea
392.	Jan, 2020	Alpine Brain Imaging Meeting, Champery, Switzerland
393.	Sept, 2020	NIH workshop Neuroim. Challenges across Pops. and settings, virtual
394.	Oct, 2020	Brain Space Initiative, virtual
395.	Oct, 2020	Bergen Imaging Center, virtual
396.	Dec, 2020	NIH Clinical Neuroscience grand rounds, virtual
397.	Jan, 2020	SFIM BSC talk, virtual
398.	Sept, 2021	Resting State Workshop, Dallas, TX

Popular Press and Social Media Interviews of me

July, 2005: NIH LifeWorks Interview link link2 link3

Feb, 2014: Science Studio Podcast link

Oct, 2015: NeuWrite West Podcast link

April 18, 2019: OHBM Oral History: Peter Bandettini link

Feb 19, 2020: Listen Up Milwaukee link

Sept, 2020: Speaking of Science link

Dec 12, 2020: Listen Up Milwaukee link

Podcast interviews with me as host interviewing others
Feb 19, 2019: NIMH Brain Experts: Francisco Pereira link
Feb 19, 2019: NIMH Brain Experts: Danny Pine link
June 20, 2019: NIMH Brain Experts: Niko Kriegeskorte link
Dec 6, 2019: NIMH Brain Experts: Chris Baker link
March 16, 2020: NIMH Brain Experts: Laura Lewis link
Sept 8, 2020: NIMH Brain Experts: Bob Savoy link

Blog and Twitter:
The Brain Blog: thebrainblog.org
@fMRI_today: @fMRI_today
Personal Blog: bandettini.org
Guest blog for OHBM: Ten Unique Characteristics of fMRI

Online Recorded Presentations
June 7, 2013: Presidential Commission for the Study of Bioethical Issues link
May 21, 2014: fMRI of spontaneous neuronal activity: Multi-echo EPI noise removal link
June 10, 2019: OHBM Meeting: Symposium on retrospective of OHBM link (the symposium starts at 1:46:50)
Nov 26, 2019: The NIH Functional MRI Facility over the past decade link
Sept 22, 2020: Closing Synthesis and Next steps from NIH workshop on addressing neuroimaging challenges across populations and settings. Link (my lecture starts at 4:47:55)

Oct 9, 2020: New Maps of Activation, Connectivity, and Hierarchy using Ultra High Resolution fMRI link

NIH Summer Course that I have organized since 2010 and links to my lectures:

2014 NIH Course link
June 2, 2014: Introduction to fMRI course and history of fMRI link
June 6, 2014: Functional MRI contrast and the limits of spatial and temporal resolution link
July 2, 2014: Functional MRI paradigm designs and processing methods link
July 7, 2014: fMRI of individual subjects and subject classification - what needs to be done? Link
Aug 22, 2014: fMRI methods that never quite caught on. Link
Aug 27, 2014: Contentious issues in fMRI. Link
Sept 5, 2014: The future of fMRI link

2015 NIH Course link
June 5, 2015: Introduction to fMRI course and a history of fMRI: link
June 25, 2015: Functional MRI contrast and the limits of spatial and temporal resolution link
July 1, 2015: fMRI paradigm designs and processing methods link
July 8, 2015: fMRI methods that never quite caught on link

Sept 2, 2015: Contentious issues in fMRI and the future link

2016 NIH Course link
May 31, 2016: Introduction and a history of fMRI and neuroimaging link
May 31, 2016: Functional MRI and the limits of spatial and temporal resolution link
June 6, 2016: fMRI paradigm designs and processing methods link
July 11, 2016: fMRI methods that have never quite caught on link
Sept 1, 2016: clinical applications and the future of fMRI link

2017 NIH Course link
June 2, 2017: Introduction to course and a history of fMRI and neuroimaging link
June 5, 2017: fMRI limits, paradigms, and processing link
Sept 1, 2017: The future of fMRI and course conclusion link

2018 NIH Course link
June 1, 2018: Introduction to course topics and history and basics of fMRI link
Aug 31, 2018: The future of neuroimaging and course conclusions

2019 NIH Course link
June 18, 2019: Hemodynamic controversies and challenges link
June 20, 2019: curious contrasts other than BOLD link
July 18, 2019: What influences the fMRI signal? link
July 23, 2019: Why isn't fMRI more clinically useful? Link