CURRICULUM VITAE

**Date of Revision:** 02/25/2020

**Name:** Michelle Hampson, Ph.D.

**Proposed for Promotion to:** Associate Professor with Tenure

## Term: 5 years

**School:** Yale University School of Medicine

**Education:**

B.Sc. Computing Science. May 1993. University of Alberta, Edmonton, Alberta, Canada.

Ph.D. Cognitive and Neural Systems. January 2000. Boston University, Boston, Massachusetts.

**Career/Academic Appointments:**

1999 – 2002 Postdoctoral fellow in Diagnostic Radiology, Yale University.

2002 – 2007 Associate Research Scientist of Diagnostic Radiology, Yale University.

2007 – 2012 Research Scientist of Diagnostic Radiology, Yale University.

2012 – 2017 Assistant Professor, Department of Radiology and Biomedical Imaging.

2017 – present Associate Professor, Department of Radiology and Biomedical Imaging, secondary appointments in Psychiatry and the Child Study Center.

**Grant/Clinical Trials History:**

**Current Grants**

Agency: NIMH

I.D.# R61 MH115110

Title: Neurofeedback of Amygdala Activity for PTSD

P.I.: Michelle Hampson, Ilan Harpaz-Rotem

Percent effort: 35%

Direct Costs: $689,126

Total Costs for project period: $1,154,287

Project Period: 10/01/18-07/31/2020

Agency: NIMH

I.D.# R01 MH100068

Title: Biofeedback of activity in the orbitofrontal cortex for OCD

P.I.: Michelle Hampson

Percent effort: 35%

Direct Costs: $298,807

Total Costs for project period: $2,521,700

Project Period: 09/04/2014-6/30/2020 (with NCE)

Agency: NIDA

Title: Does Dopamine Mediate Effects of Stress on Inhibitory Control and Smoking Lapse?

P.I.: Evan Morris

Percent effort: 5%

Direct Costs: $652,000

Total Costs for project period: $5,396,413

Project Period: 10/01/18-07/31/2023

Agency: NICHD

I.D.# R01 HD083881

Title: “Neural mechanisms of CBT for anxiety in children with autism spectrum disorder”
P.I.: Denis Sukhodolsky

Role on Project: Investigator
Percent effort: 10%
Direct costs per year: $ 337,638
Total costs for project period: $2,838,889
Project period: 06/17/16-03/31/21

**Past Grants**

**Principal Investigator**

Agency: VA NCPTSD

Title: Developing a PTSD neurofeedback intervention

P.I.: Michelle Hampson

Percent effort: variable over grant term

Direct Costs: $49,535

Total costs for project period: $49,535

Project Period: 05/01/18-09/31/18

Agency: NIMH

I.D.# R01 MH095789

Title: Biofeedback of activity in the supplementary motor area for Tourette Syndrome

P.I.: Michelle Hampson

Percent effort: 35%

Direct Costs: $250,000

Total Costs for project period: $2,063,146

Project Period: 06/08/12-05/31/17

Agency: YCCI/ Yale Internal

I.D.# CTSA grant # UL1 RR024139

Title: “Neurofeedback for Obessesive Compulsive Disorder”
PI: Michelle Hampson
Percent effort: no salary
Direct costs per year: $6,900
Total costs for project period: $ 6,900
Project period: 04/01/13 - 03/31/14

Agency: NIMH

I.D.# R21 MH090384-01

Title: “Biofeedback of real-time fMRI to control activity in the orbitofrontal cortex”
P.I.: Michelle Hampson
Percent effort: 8% - 40% (variable over grant period)
Direct costs per year: $112,500
Total costs for project period: $ 453,056
Project period: 04/13/10-02/28/13 NCE

Agency: Dana Foundation Brain and Immuno-Imaging, Track A

I.D.#

Title: “Biofeedback of activity in the Supplementary motor area to reduce tics in Tourette Syndrome”

P.I.: Michelle Hampson

Percent effort: 30%

Total costs for project period: $100,000

Project period: 04/01/09-03/31/10

Agency: Tourette Syndrome Association

I.D.#

P.I.: Michelle Hampson

Title: FMRI study of the regional brain activations associated with motor tics:

Percent effort: 6%

Total costs for project period: $75,000

Project period: 09/2003-2/2007

Agency: National Science Foundation

I.D.# BCS-0121926

P.I.: Michelle Hampson

Title: Evaluating the efficacy of a new functional imaging protocol for obtaining data on functional connectivity:

Project period: 09/2001-09/2003

**Co-investigator**

Agency: NIMH

I.D.# R01 MH067073

Title: “Pathophysiology of Auditory Hallucinations”
P.I.: Philip Corlett

Role on Project: Investigator
Percent effort: 15 %
Direct costs per year: $249,275
Total costs for project period: $2,004,080
Project period: 07/18/11 – 04/30/17

Agency: NIH

I.D.# R01 EB009666

Title: “Method for Measuring Functional Subunits in Human Cortex”
P.I.: R. Todd Constable

Role on Project: Investigator
Percent effort: 19%
Direct costs per year: $ 216,270
Total costs for project period: $ 1,250,160
Project period: 04/01/11-03/31/14

Agency: NIH-Subcontract with Haskins Lab

I.D.# R01 HD065794

Title: “Neurobiological Predictors of Spoken and Written Language Learning”
P.I.: Robert Fulbright

Role on Project: Investigator
Percent effort: 4%
Direct costs per year: $ 40,281
Total costs for project period: $ 356,717
Project period: 05/10/11 - 03/31/16

Agency: NARSAD

I.D.#

Title: “Abberant Memory Consolidation and the emergence of schizophrenia”
P.I.: Ralph Hoffman

Role on Project: Investigator
Percent effort: 25 %
Direct costs per year: $ 92,436
Total costs for project period: $ 99,831
Project period: 10/15/11-10/14/12

Agency: Manton Foundation Project

I.D.#

Title: “Developing a Dyslexia Screening Test for American Children”

P.I.: Jeffrey Gruen

Role on Project: Investigator

Percent effort: 10%

Total costs for project period: $ 790,500

Project period: 07/01/09 – 11/30/13

Agency: NIH/NINDS

I.D.# NS 27116-16

Title: “Randomized Infomethacin GMH/IVH Prevention Trial

P.I.: Laura Ment

Role on Project: Investigator

Percent effort: 19%

Total costs for project period: $1,041,238/Direct Cost/ year

Project period: 04/01/05-03/31/10

Agency: NIH/NIBIB
I.D.# R01 EB000473

Title: “Bio Imaging and Intervention in Neocortical Epilepsy”

P.I.: James Duncan

Role on Project: Investigator

Percent effort: 10 %

Total costs for project period: $8,865,875

Project period: 04/16/07-03/31/12

Agency: NIH

I.D.# R01 DA023248

Title: “Cognitive control and cocaine dependence”

P.I.: Li

Role on Project: Investigator

Percent effort: 5%

Total costs for project period: $250,000/Direct Cost/ year

Project period: 07/01/08-04/30/13

Agency: IRCSSA Pilot Project

I.D.#

Title: “Development of real-time fMRI for neurophysiological feedback in self control of stress, addiction, and pain”

P.I.: Nallakkandi Rajeevan

Role on Project: Investigator

Percent effort: %

Total costs for project period: $ 132,726

Project period: 07/01/08-06/30/10

Agency: Dept of Veterans Affairs

I.D.#

Title:

P.I.: John Krystal

Role on Project: Investigator

Percent effort: 15%

Total costs for project period: $

Project period:

**Current Clinical Trials**

Agency: NIH funded trial
I.D.# NCT#02206945
Title: “Neurofeedback of amygdala activity for Post-traumatic Stress Disorder (PTSD)”
PI: Michelle Hampson and Ilan Harpaz-Rotem
Percent effort: supported under NIH grant 1 R61 MH115110
Project period: 06/01/18-6/30/23

Agency: NIH funded trial
I.D.# NCT#03574974
Title: “Neurofeedback for Obsessive-Compulsive Disorder (OCD)”
PI: Michelle Hampson
Percent effort: supported under NIH grant R01 MH100068
Project period: 09/04/14-6/30/19

**Past Clinical Trials**

Agency: NIH funded trial
I.D.# NCT#01702077
Title: “Neurofeedback for Tourette Syndrome”
PI: Michelle Hampson
Percent effort: supported under NIH grant R01 MH095789
Project period: : 06/08/12-12/31/17

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

**International/National**

2019: Real-time Imaging and Neurofeedback meeting training lecture, Aachen, Germany, "Considerations for neurofeedback clinical trials".

2019: Brain, Behavior, and Development seminar series, BC Children’s Hospital Research Institute, Vancouver, Canada, “Time course of clinical change induced by neurofeedback”.

2019: NIH Workshop on real-time fMRI neurofeedback, Bethesda, MD, “Time course of clinical change induced by neurofeedback”

2019: Tulane Brain Institute Seminar Series, Tulane University, New Orleans, Louisiana. “Real-time fMRI neurofeedback for treating and studying mental illness”.

2018: American College of Neuropsychopharmacology (ACNP) Annual Meeting, Hollywood, Florida. Symposia panel title: *Modulation of Processes Underlying Mental Disorders via Neurofeedback Technologies.* Talk title:“Time course of clinical change induced by neurofeedback”.

2018: Sixth Biennial Conference on Resting State and Brain Connectivity, Montreal, Quebec, Canada. “Biomarkers of neurofeedback response”.

2018: International School on Magnetic Resonance and Brain Function – XIII Workshop, Erice Italy. “Time course of response to real-time fMRI neurofeedback”.

2017: Brain Computer Interfaces and Neurofeedback Symposium, Kyoto, Japan. “Time courses of clinical changes associated with neurofeedback”.

2014: Radcliffe Symposium on real-time fMRI, Cambridge, MA: “Optimization of real-time fMRI neurofeedback”.

2014: International Symposium for Life Design and Engineering, Yokohama, Japan: “Real-time fMRI neurofeedback for treating and studying obsessive-compulsive symptoms”.

2014: Invited presentation at Advanced Telecommunications Research International, Kansai Science City, Japan: “Real-time fMRI neurofeedback for treating and studying obsessive-compulsive symptoms.”

2014: International School on Magnetic Resonance and Brain Function – XI Workshop, Erice, Italy: “Real-time fMRI neurofeedback for treating and studying obsessive-compulsive symptoms.”

2012: 3rd Biennial Conference on Resting State Brain Connectivity, Magdeburg, Germany: “Exploratory, voxel-wise measures of connectivity.”

2012: Scientific Workshop: FMRI from Cortical Layers to Networks, Whistler-Blackcomb, Canada: “ Biofeedback of fMRI data from the orbitofrontal cortex to reduce contamination anxiety.”

2010 Society for Neuroscience Annual Meeting, Short Course titled “Analysis and Function of Large Scale Brain Networks”, San Diego, CA: “Relating variations in network connectivity to cognitive function.”

2010 Resting State Functional Connectivity, 2nd biennial meeting, Milwaukee, WI: “Modulating functional connectivity.”

2009 International School on Magnetic Resonance and Brain Function, VII Workshop, Erice, Italy: “Relationships between behavior and functional connectivity in the brain”

2008 Workshop on Connectivity in the Resting Brain, Magdeburg, Germany: “Brain Connectivity and Behavior”

2007 Sixth International Workshop on Brain Connectivity, Barcelona, Spain: “Relating function to connectivity”

**Regional**

2014: New England OCD Research Symposium: “Predicting response to neurofeedback intervention”

2013: New England OCD Research Symposium: “Real-time fMRI biofeedback”

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

**International/National**

2015: Real Time Functional Imaging and Neurofeedback, Gainesville, FL: "Brain correlates of success and failure signals during feedback learning”

**Professional Service**

**Peer Review Groups/Grant Study Sections:**

2019 Collaborative Research in Computational Neuroscience  (NSF/NIH/BMBF/ANR/BSF/NICT/AEI/ISCIII)- panel member for review conducted at NSF for international collaborative funding proposals.

2018 Deutsche Forschungsgemeinschaft (German Research Foundation), Clinical Trials Programme reviewer

2018 NIMH review panel ZMH1 ERB-D (02), September review for RFA-MH-17-604, RFA-MH-17-614, PA-18-363

 2017 NIMH review panel ZMH1 ERB-D, September review for RFA-MH-17-604

2016 Isreal Science Foundation, March Review

2015 Kings Health Partners, R & D Challenge Fund, UK, March review

2014 Kings Health Partners, R & D Challenge Fund, UK, December review

2014 NIMH July panel for K99/R00

2014 Kings Health Partners, R & D Challenge Fund, UK, February review

2014 NIMH February panel for K99/R00

2013 NIMH November panel for K99/R00

2013 NIMH June panel for K99/R00

2013 Medical Research Council, Research Councils UK. Biomedical Catalyst: Developmental Pathways Funding Scheme

2013 NIMH February panel for K99/R00

2011 Review panel for NIDA SBIR submission.

**Journal Service:**

Editor/Associate Editor

2011-present Academic Editor, *PLoS One*

2017-2019: Editor for NeuroImage Special Issue on Neurofeedback

Reviewer

2002-present Reviewer for NeuroImage, Human Brain Mapping, Cerebral Cortex, Brain, Biological Psychiatry, Magnetic Resonance in Medicine, PLoS One, IEEE AMD, Magnetic Resonance Imaging, Behavioral Brain Research, Brain Connectivity, Journal of Psychiatry and Neuroscience, Clinical Neurophysiology, Frontiers in Neuroscience, Archives of General Psychiatry, Frontiers in Behavioral Neuroscience, Frontiers in Human Neuroscience, Journal of Neuroscience, Proceedings of the National Academy of Sciences

 **Professional Service for Professional Organizations:**

2015-present: Member of the Executive Committee planning the Real-time Functional Imaging and Neurofeedback 2017 meeting (<http://www.cns.atr.jp/kawato/?page_id=36>)

2014 Organized the Resting Connectivity Satellite Workshop: Interventions and Consciousness, Cambridge, MA. 77 registered participants.

**Yale University Service:**

***Departmental Committees***

2016: Member of the planning meeting for the Radiology Research Day

2015: Member of the planning meeting for the BioImaging Sciences Retreat

***Interdepartmental Committees***

2018: Bioimaging Scholar Awards Committee

2017: Bioimaging Scholar Awards Committee

2016 – present: Member of the Developmental Neuroimaging Pod. This group is comprised of 4 faculty members from the Child Study Center and Radiology who facilitate pediatric neuroimaging.

***Presentations (records limited to last five years)***

2019: Data Blitz: "Real-time fMRI neurofeedback for treating and studying mental illness" (10 minutes)

2019: Neuroimaging for Clinical Neuroscientist: “Real-time fMRI” (1 hour)

2018: Data Blitz: “Real time fMRI neurofeedback for treating and studying mental illness” (10 minutes)

2018: Work-in-Progress seminar, 2018: “Time course of clinical change induced by neurofeedback.” (1 hour)

2018: Neuroimaging for the Clinical Neuroscientist: “Real-time fMRI” (1 hour)

2017: Data Blitz 2017: “Real time fMRI neurofeedback for treating and studying mental illness” (10 minutes)

2017: BENG 480 lecture: “Human functional brain imaging for studying and treating OCD.” (1 hour)

2017: National Center for PTSD Research V-Tel lecture: "Neurofeedback of amygdala activity for PTSD" (1 hour)

2017: Neuroimaging for the Clinical Neuroscientist: “Real-time fMRI” (1 hour)

2016: Yale Child Study Center Associates Meeting, Seminar: “Mindfulness and biofeedback interventions for children and adolescents” (45 minutes)

2016: Yale Child Study Center Associates Meeting, Data Blitz: “Real-time fMRI neurofeedback: training subjects to control brain activity”. (5 minutes)

2016: Yale Child Study Center Summer Internship Lecture Series: “Functional MRI neurofeedback for studying and treating anxiety” (1 hour)

2016: BENG 480 lecture: “Human functional brain imaging for studying and treating OCD.” (1 hour)

2016: Neuroimaging for the Clinical Neuroscientist: “Real-time fMRI” (1 hour)

2016: Data Blitz 2016: “Real time fMRI neurofeedback for treating and studying mental illness” (10 minutes)

2015: Journal club on Translational and Clinical MR Research. Presentation of the paper: “Down-regulation of amygdala activation with real-time fMRI neurofeedback in a healthy female sample.” (1 hour)

2015: BENG 480 lecture: “Human functional brain imaging for studying and treating OCD.” (1 hour)

2015: Cognitive Lunch Talk Series, Yale Psychology Department: “Changing brain function with real-time fMRI neurofeedback” (1 hour and 15 minutes)

2015: Child Neuropsychiatric Disorders T32 Seminar: “OCD – Bench to Bedside”.

2015: Yale Child Study Center Summer Internship Lecture Series: “Functional MRI neurofeedback for studying and treating anxiety” (1 hour)

2015: Data Blitz 2015: “Real time fMRI neurofeedback for treating and studying mental illness” (10 minutes)

2014: BENG 480 lecture: “Human functional brain imaging for studying and treating OCD.” (1 hour)

2014: Yale Child Study Center Summer Internship Lecture Series: “Functional MRI neurofeedback for studying and treating anxiety” (1 hour)

2014: Data Blitz 2014: “Real time fMRI neurofeedback for treating and studying mental illness” (10 minutes)

**Bibliography:**

**Peer-Reviewed Original Research**

1. Guenther, F., **Hampson, M.**, and Johnson, D. 1998. A theoretical investigation of reference frames for the planning of speech movements. Psychological Review, 105(4), 611-633.
2. **Hampson, M.**, Peterson, B., Skudlarski, P., Gatenby, C. and Gore, J. 2002. Detection of functional connectivity using temporal correlations in MR images. Human Brain Mapping, 15: 247-262.
3. Hoffman, R.E., **Hampson, M.**, Varanko, M., McGlashan T.H. 2004. Auditory hallucinations, network connectivity, and schizophrenia (commentary). Behavioral and Brain Sciences, 27: 860-1.
4. **Hampson, M.**, Olson, I.R., Leung, H.C., Skudlarski, P., Gore, J.C. 2004. Changes in functional connectivity of MT/v5 with visual motion input. NeuroReport, 15(8): 1315-9.
5. **Hampson, M.**, Tokoglu, F., Sun, Z. Schafer, R., Skudlarski, P., Gore, J.C., Constable, R.T., 2006. Connectivity-behaviour analysis reveals that functional connectivity between left BA39 and Broca’s area varies with reading ability. NeuroImage, 31: 513-519.
6. **Hampson, M.**, Driesen, N.R., Skudlarski, P., Gore, J.C., Constable, R.T. 2006. Brain connectivity related to working memory performance. The Journal of Neuroscience, 26(51): 13338-13343.
7. Hoffman, R., **Hampson, M.** Wu, K., Anderson, A., Gore, J., Buchanan, R.J., Constable, T. Hawkins, K., Sahay, N., Krystal, J.H., 2007. Probing the pathophysiology of auditory hallucinations by combining functional magnetic resonance imaging and transcranial magnetic stimulation. Cerebral Cortex, 17: 2733-2743.
8. Hoffman, R.E., Anderson, A.W., Varanko, M., Gore, J.C., Coric, V., **Hampson, M.** 2008. Time course of regional brain activation associated with onset of auditory/verbal hallucinations. British Journal of Psychiatry,193: 424-425.
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11. Gozzo, Y., Vohr, B., Lacadie, C., **Hampson, M.**, Katz, K.H., Maller-Kesselman, J., Schneider, K.C., Peterson, B.S., Rajeevan, N., Makuch, R.W., Constable, R.T., Ment, L.R. 2009. Alterations in neural connectivity in preterm children at school age. NeuroImage, 48(2):458-63.
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15. Chepenik, L.G., Raffo, M., **Hampson, M.**, Lacadie, C., Wang, F., Jones, M.M., Pittman, B., Skudlarski, P., Blumberg, H.P. 2010. Low frequency temporal associations between ventral prefrontal cortex and amygdala activity in the resting state in bipolar disorder. Psychiatry Research: Neuroimaging, 183(3): 207-10.
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