

SHAUN PATEL

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Harvard Medical School
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education

- 2016–18 **MMSc** Biomedical Informatics
Harvard Medical School
- 2009–15 **Ph.D.** Anatomy and Neurobiology
Dissertation: Single Neuron Computations of Cognition in the Human Brain
Advisors: Emad Eskandar, M.D. and Louis Toth, Ph.D.
Boston University School of Medicine
- 2007–09 **M.A.** Medical Sciences
Thesis: A Novel Method for Detecting Sleep Spindles Using Circular Statistics
Advisors: Emad Eskandar, M.D. and Louis Toth, Ph.D.
Boston University School of Medicine
- 2003–07 **B.A.** Psychology and Biochemistry
Indiana University

positions

- 2018– **Instructor in** Neurology
Massachusetts General Hospital
- 2018– **Instructor in** Neurology
Harvard Medical School
- 2015–18 **Research Fellow** Neurosurgery
Harvard Medical School
Massachusetts General Hospital
- 2015-16 **Visiting Scholar** Department of Neuroscience
Cleveland Clinic Foundation
- 2015-17 **Member** CNS Steering Committee
American Physiological Society

awards

- 2017 Harvard Distinction in Teaching Award - excellence in work with students and commitment to teaching; fall
- 2017 Harvard Distinction in Teaching Award - excellence in work with students and commitment to teaching; spring
- 2017 mHealth Scholar \$5,000 - selected as scholar for mHealth Institute at UCLA
- 2017 Understanding Biomarker Science Program - one week institute on biomarker science
- 2016 Harvard Distinction in Teaching Award - excellence in work with students and commitment to teaching; fall
- 2016 Harvard Distinction in Teaching Award - excellence in work with students and commitment to teaching; spring
- 2016 Partners Connected Health Innovation Challenge - top 6 finalists for innovative health technologies
- 2016 Kavli Summer Institute in Cognitive Neuroscience Fellowship - two week summer institute
- 2016 Harvard Distinction in Teaching Award - excellence in work with students and commitment to teaching; fall
- 2016 SFN-JNS Travel Award \$2,000 - for highest rated abstract
- 2016 ADAA Alies Muskin Career Development Leadership Program - intensive mentoring and professional development
- 2016 SOBP Early Career Investigator Fellowship \$2,000 - to attend Society of Biological Psychiatry
- 2015 National Research Mentoring Network \$2,000 - 6-month NIH supported K99 intensive writing and coaching workshop

2015 MGH Clinical Research Day Team Award \$2,500 - award for remarkable cross-disciplinary research

2015 Microsoft Research Grant \$20,000 - to apply machine learning algorithms to invasive neurophysiology data

2015 NCRG Travel Awards \$1,500 - to attend Biological Psychiatry Meeting

2015 Data Science Fellowship \$4,000 - to attend data science workshop

2015 SFN-IBRO World Congress Travel Award \$2,000 - to attend IBRO World Congress

2014 Human Single Unit Travel Award \$1,000 - abstract selected for oral presentation

2014 Society for Neuroscience Hot Topic - selected for hot topic publication at annual meeting

2014 NCRG Travel Award \$1,500 - to attend Society for Neuroscience

2014 Gordon Research Seminar Award \$1,250 - abstract selected for oral presentation

2014 FASEB/MARC Travel Award \$1,250 - to attend postdoctoral preparation institute

2014 Swartz Foundation Fellowship \$400 - to attend 79th Cold Spring Harbor Symposium

2014 Parkinson's Disease Foundation Travel Award \$1,000 - to attend Gordon Research Conference

2014 Cognitive Neuroscience Society Graduate Student Award \$500 - for highest rated abstract

2013 Insight Data Science Fellowship \$5,000 - data scientist incubator in tech sector [declined]

2013 FutureMed Student Scholarship \$2,000 - scholarship to attend conference

2013 Henry I. Russek Student Achievement Award 1st place: \$900 - for outstanding research and contribution

2013 Symposium on Decision Neuroscience Travel Award \$250 - for top scientific abstract

2013 TEDMED Front Line Scholar \$2,500 - scholarship to attend conference as a delegate

2012 Society for Neuroeconomics Travel Award \$300 - for highest rated abstract

2012 Society for Neuroscience Graduate Student Travel Award \$1,000 - for top scientific abstract

2012 Sackler Scholar in Psychobiology \$15,000 - for distinguished study of psychobiology related to human disease

2012 Henry I. Russek Student Achievement Award 2nd place: \$500 - for outstanding research and contribution

2012 CELSET/CompNet Award in Experimental and Systems Neuroscience \$500 - for top scientific poster

2012 Computational and Systems Neuroscience (COSYNE) Travel Award \$500 - for highest rated abstract

2011 Boston University Graduate Medical Sciences Travel Award \$250 - for conference travel

2011 Parkinson's Disease Foundation Fellowship \$3,000 for 10 weeks - for summer research on basal ganglia signals

2006 Dill Research Scholarship \$3,000 for 10 weeks - for summer research on nootropics

2004 Eli Lilly Summer Research Fellowship \$3,000 for 10 weeks - for summer research on medicinal chemistry

2003 Presidential Scholarship \$15,000/year for 4 years - merit based

2003 Multicultural Scholarship \$10,000/year for 4 years - merit based

2003 Honor Scholarship \$5,000/year for 4 years - merit based

published works

Published Works [14] - Book Chapters [2] • Review Papers [1] • Publications [11]

Cerebral Cortex | Journal of Natural Products | Journal of Neuroscience | Journal of Time Series Analysis | MIT Press | Nature | Nature Protocols | Nature Scientific Reports | PLoS One | Springer International Press | World Neurosurgery

book chapters

2016 Striatal Mechanisms of Associative Learning
Shaun R. Patel, Jennifer Cheng, Arjun Kahanna, Rupen Desai, Emad Eskandar
Springer International Press

2014 Reward processing in the anterior cingulate cortex and basal ganglia
Shaun R. Patel, Demetrio Sierra-Mercado, Clarissa Martinez-Rubio, Emad Eskandar
MIT Press

review papers

2012 Lesion procedures in psychiatric neurosurgery
Shaun R. Patel, Josh Aronson, Sameer Sheth, Emad Eskandar
World Neurosurgery, doi: 10.1016/j.wneu.2012.11.038

publications

- 2016 Dynamics of propofol-induced unconsciousness across primate neocortex
Yumiko Ishizawa, Omar Ahmed, Shaun R. Patel, John Gale, Demetrio Sierra, Emery Brown, Emad Eskandar
Journal of Neuroscience, doi: 10.1523/jneurosci.4577-15.2016
- 2016 Temporally coordinated deep brain stimulation in the dorsal and ventral striatum synergistically enhances associative learning
Shaun R. Patel*, Husam Katnani*, Churl-Su Kwon, Samer Abdel-Aziz, John Gale, Emad Eskandar
Nature Scientific Reports, doi: 10.1038/srep18806
- 2015 Frequency-dependent representation of feedback-related information in the human medial and lateral prefrontal cortex
Elliot Smith, Garrett Banks, Chuck Mikell, Sydney Cash, Shaun R. Patel, Emad Eskandar, Sameer Sheth
Journal of Neuroscience, doi: 10.1523/jneurosci.1864-15.2015
- 2015 Sharp wave ripples during visual exploration in the primate hippocampus
Timothy Leonard, Jonathan Mikkila, Emad Eskandar, Jason Gerrard, Daniel Kaping, Shaun R. Patel, Thilo Womelsdorf, Kari Hoffman
Journal of Neuroscience, doi: 10.1523/jneurosci.0864-15.2015
- 2014 An open source 3-d printed modular micro-drive system for acute neurophysiology
Shaun R. Patel, Kaushik Ghose, Emad Eskandar
PLoS One, doi: 10.1371/journal.pone.0094262
- 2013 Studying task-related activity of individual neurons in the human brain
Shaun R. Patel, Sameer Sheth, Clarissa Martinez-Rubio, Matthew Mian, Wael Asaad, Jason Gerrard, Darin Dougherty, Alice Flaherty, Benjamin Greenberg, John Gale, Ziv Williams, Emad Eskandar
Nature Protocols, doi: 10.1038/nprot.2013.050
- 2012 Single-neuronal responses during tool selection in the human prefrontal cortex
Matthew Mian, Sameer Sheth, Shaun R. Patel, Kostas Spiliopoulos, Emad Eskandar
Cerebral Cortex, doi: 10.1093/cercor/bhs361
- 2012 Human dorsal anterior cingulate cortex neurons mediate ongoing behavioral adaptation
Sameer Sheth, Matthew Mian, Shaun R. Patel, Wael Asaad, Ziv Williams, Darin Dougherty, George Bush, Emad Eskandar
Nature, doi: 10.1038/nature11239
- 2012 Single neuron responses in the human nucleus accumbens during a financial decision-making task
Shaun R. Patel, Sameer Sheth, Matthew Mian, John Gale, Benjamin Greenberg, Darin Dougherty, Emad Eskandar
Journal of Neuroscience, doi: 10.1523/jneurosci.0027-12.2012
- 2011 Exploring dependence between brain signals in a monkey during learning
Cristina Gorrostieta, Hernado Ombao, Raquel Prado, Shaun R. Patel, Emad Eskandar
Journal of Time Series Analysis, doi: 10.1111/j.1467-9892.2011.00767.x
- 2009 Epiquinamide: A poison that wasn't from a frog that was
Richard Fitch, Gordon Sturgeon, Shaun R. Patel, Thomas Spande, Martin Garraffo, John Daly, Richard Blaauw
Journal of Natural Products, doi: 10.1021/np8005452

publications - under review

- 2017 Multimodal exploration of the subthalamic nucleus during decision-making under uncertainty
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Jimmy Yang, Alice Flaherty, Michael Frank, Emad Eskandar
- 2017 Regional dissociation in a primate sensory cortex during neuronal recovery from propofol-induced unconsciousness.
Shaun R. Patel, Emery Brown, Emad Eskandar, Yumiko Ishizawa
- 2017 Neurons in the dorsal prefrontal cortex mediate human opinion
Mohsen Jamali, Ziv Moses, Keren Haroush, Emad Eskandar, Todd Herrington, Shaun R. Patel, Ziv Williams
- 2017 Distinct representation of conflict, response, and feedback selectivity by individual neurons in human dorsal anterior cingulate cortex
Guillermo Horga, Matthew Mian, Shaun R. Patel, Emad Eskandar, Matthew Botvinick, Sameer Sheth

research presentations

Research Presentations [48] - Podium [18] • Poster [30]

American Association of Neurological Surgeons | Anesthesiology Annual Meeting | American Society of Anesthesiologists | American Society for Stereotactic and Functional Neurosurgery | Anxiety and Depression Association of America | Boston University CTSI Translational Research Symposium | Boston University McCahan Education Day | Boston University Neuroscience Day | Boston University Science and Engineering Symposium | Boston University Russek Student Achievement Day | Cognitive Neuroscience Society | Congress of Neurological Surgeons | Computational and Systems Neuroscience | Federation of European Neurosciences | Gordon Research Conference | Human Single Neuron Conference | Interdisciplinary Symposium on Decision Neuroscience | Society for Neuroeconomics | Society for Neuroscience | Society of Biological Psychiatry

research presentations - podium

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|------|---|------------------|
| 2016 | DARPA SUBNETS: What are we learning?
Shaun R. Patel, Emad Eskandar
<i>American Society for Stereotactic and Functional Neurosurgery</i> | Chicago, IL |
| 2016 | Rapid intermittent subthalamic deep brain stimulation biases decisions under uncertainty
Shaun R. Patel, Todd Herrington, Sameer Sheth, Matthew Mian, Sarah Bourne, Thilo Deckersbach, Darin Dougherty, Emad Eskandar
<i>Society of Biological Psychiatry</i> | Atlanta, GA |
| 2015 | Recovery of sensory processing in somatosensory versus higher-order cortices from propofol anesthesia in primates
Yumiko Ishizawa, Shaun R. Patel, Omar Ahmed, Emery Brown, Emad Eskandar
<i>American Society of Anesthesiologists</i> | San Diego, CA |
| 2015 | Neural activity in the human subthalamic nucleus and globus pallidus during approach-avoidance decision making
Todd Herrington, Shaun R. Patel, Darin Dougherty, Emad Eskandar
<i>Society for Neuroscience</i> | Chicago, IL |
| 2015 | Intermittent deep brain stimulation biases behavior in a financial decision-making task
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Jimmy Yang, Alice Flaherty, Emad Eskandar
<i>Interdisciplinary Symposium on Decision Neuroscience</i> | Cambridge, MA |
| 2015 | Intermittent deep brain stimulation biases behavior in a financial decision-making task
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Jimmy Yang, Alice Flaherty, Emad Eskandar
<i>Society of Biological Psychiatry</i> | Toronto, ON |
| 2014 | Rapid intermittent deep brain stimulation biases behavior in a financial decision-making task.
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Jimmy Yang, Alice Flaherty, Emad Eskandar
<i>Society for Neuroscience</i> | Washington, DC |
| 2014 | Rapid intermittent deep brain stimulation biases behavior in a financial decision-making task.
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Jimmy Yang, Alice Flaherty, Emad Eskandar
<i>Gordon Research Conference</i> | Newry, ME |
| 2013 | Synergistic effects of dual stimulation of the caudate and nucleus accumbens on learning
Churl Su Kwon, Shaun R. Patel, John Gale, Emad Eskandar
<i>Society for Neuroscience</i> | San Diego, CA |
| 2013 | All bets are off: gambling and deep brain stimulation
Shaun R. Patel, Sameer Sheth, Matthew Mian, Jimmy Yang, Emad Eskandar
<i>Boston University Russek Student Achievement Day</i> | Boston, MA |
| 2013 | Correlation and causation: understanding and altering decision-making in the human brain
Shaun R. Patel, Sameer Sheth, Matthew Mian, Jimmy Yang, Emad Eskandar
<i>Interdisciplinary Symposium on Decision Neuroscience</i> | Philadelphia, PA |

- 2012 All bets are off: gambling and deep brain stimulation Miami, FL
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Matthew Thombs, Alice Flaherty, Emad Eskandar
Society for Neuroeconomics
- 2012 All bets are off: gambling and deep brain stimulation Salt Lake City, UT
Shaun R. Patel, Sameer Sheth, Matthew Mian, John Gale, Benjamin Greenberg, Darin Dougherty, Emad Eskandar
Computational and Systems Neuroscience (COSYNE)
- 2010 Human ventromedial subthalamic nucleus neurons are sensitive to reward contingency and expectation New York, NY
Matthew Mian, Sameer Sheth, Shaun R. Patel, John Gale, Emad Eskandar
American Society for Stereotactic and Functional Neurosurgery
- 2010 Distinct subpopulations of human dorsal anterior cingulate cortex neurons New York, NY
Sameer Sheth, Matthew Mian, John Gale, Shaun R. Patel, Emad Eskandar
American Society for Stereotactic and Functional Neurosurgery
- 2010 Human ventromedial subthalamic nucleus neurons are sensitive to reward contingency and expectation New York, NY
Sameer Sheth, Matthew Mian, John Gale, Shaun R. Patel, Emad Eskandar
American Society for Stereotactic and Functional Neurosurgery
- 2006 Examining effects of caffeine and adderall on spatial learning and memory in young rats St. Louis, MI
Shaun R. Patel, Nathan Bates, Robert Horton
Mid-american Undergraduate Psychology Research Conference
- 2004 Synthetic and biological activity of epiquinamide stereoisomers Terre Haute, IN
Karen Kipscomb, Richard Fitch, Shaun R. Patel
Indiana State University Research Showcase

research presentations - poster

- 2016 Neural activity in the human subthalamic nucleus and globus pallidus internus during approach-avoidance decision making. Philadelphia, PA
Shaun R. Patel, Todd Herrington, Sameer Sheth, Matthew Mian, Sarah Bourne, Thilo Deckersbach, Darin Dougherty, Emad Eskandar
Anxiety Depression Association of America
- 2015 Neural activity in the human subthalamic nucleus and globus pallidus internus during approach-avoidance decision making. Chicago, IL
Todd Herrington, Shaun R. Patel, Emad Eskandar
Society for Neuroscience
- 2015 Modulating fear via deep brain stimulation in non-human primates. Chicago, IL
Jennifer Chang, Angelique Paulk, Clarissa Martinez-Rubio, Eric McDonald, Shaun R. Patel, Alik Widge, Emad Eskandar
Society for Neuroscience
- 2014 Rapid intermittent deep brain stimulation biases behavior in a financial decision-making task. Newry, ME
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Jimmy Yang, Alice Flaherty, Emad Eskandar
Gordon Research Conference
- 2014 Rapid intermittent deep brain stimulation biases behavior in a financial decision-making task. Boston, MA
Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Jimmy Yang, Alice Flaherty, Emad Eskandar
Cognitive Neuroscience Society
- 2013 Imaging of temporal activation of nicotinic and dopaminergic receptor stimulation following nicotine challenge in non-human primates San Diego, CA
Clarissa Martinez-Rubio, Bruce Jenkins, Ji Choi, Shannon Luboyeski, Shaun R. Patel, Emad Eskandar
Society for Neuroscience
- 2013 Propofol differentially alters dynamics in somatosensory versus higher order cortices in primates San Francisco, CA
Yumi Ishizawa, Omar Ahmed, Demetrio Seirra-Mercado, Shaun R. Patel, Kaushik Ghose, Emery Brown, Emad Eskandar
Anesthesia Annual Meeting

2013	Correlation and causation: systems level understanding of decision-making signals at the single-neuronal level in the human brain Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Emad Eskandar <i>Cognitive Neuroscience Society</i>	San Francisco, CA
2012	All bets are off: gambling and deep brain stimulation Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Alice Flaherty, Emad Eskandar <i>Society for Neuroscience</i>	New Orleans, LA
2012	Effects of high and low microstimulation in the nucleus accumbens during associative learning Clarissa Martinez-Rubio, Shaun R. Patel, Steve Fry, Emad Eskandar <i>Society for Neuroscience</i>	New Orleans, LA
2012	Effects of high and low microstimulation in the nucleus accumbens during associative learning Clarissa Martinez-Rubio, Shaun R. Patel, Steve Fry, Emad Eskandar <i>Federation of European Neurosciences</i>	Barcelona, Spain
2012	Evaluating the effectiveness of group work Shaun R. Patel, Louis Toth, Michael Cournoyer, Maryann McNeil <i>Boston University McCahan Education Day</i>	Boston, MA
2012	Neurophysiology of Education: lessons for students and teachers Louis Toth, Shaun R. Patel, Michael Cournoyer, Maryann McNeil <i>Boston University McCahan Education Day</i>	Boston, MA
2012	The future of e-textbooks: e-teacher Louis Toth, Shaun R. Patel, Michael Cournoyer, Maryann McNeil <i>Boston University McCahan Education Day</i>	Boston, MA
2012	All bets are off: gambling and deep brain stimulation Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Alice Flaherty, Emad Eskandar <i>Boston University Russek Student Achievement Day</i>	Boston, MA
2012	All bets are off: gambling and deep brain stimulation Shaun R. Patel, Sameer Sheth, Matthew Mian, Sarah Bourne, Alice Flaherty, Emad Eskandar <i>Boston University CTSI Third Annual Translational Research Symposium</i>	Boston, MA
2012	Single neuron responses in the human nucleus accumbens during a financial decision-making task Shaun R. Patel, Sameer Sheth, Matthew Mian, John Gale, Darin Dougherty, Emad Eskandar <i>Boston University Science and Engineering Symposium</i>	Boston, MA
2011	Directional selectivity within the beta-band during a motor task in the primate basal ganglia John Gale, Shaun R. Patel, Shreya Saxena, Samer Abdel-Aziz, Sridevi Sarma, John Assad, Emad Eskandar <i>Society for Neuroscience</i>	Washington, DC
2011	Selective enhancement of associative learning by microstimulation of the anterior striatum Churl-Su Kwon, Shaun R. Patel, Samer Abdel-Aziz, John Gale, Emad Eskandar <i>Society for Neuroscience</i>	Washington, DC
2011	Single neuron responses in the human nucleus accumbens during a financial decision-making task Shaun R. Patel, Sameer Sheth, Matthew Mian, John Gale, Benjamin Greenberg, Darin Dougherty, Emad Eskandar <i>Society for Neuroscience</i>	Washington, DC
2011	Differential contributions of the nucleus basalis and orbital frontal cortex in associative learning Clarissa Martinez-Rubio, Shaun R. Patel, Louis Toth, Emad Eskandar <i>Society for Neuroscience</i>	Washington, DC
2011	Single neuron responses in the human nucleus accumbens during a financial decision-making task Shaun R. Patel, Sameer Sheth, Matthew Mian, John Gale, Benjamin Greenberg, Darin Dougherty, Emad Eskandar <i>Human Single Unit Conference</i>	New York, NY
2011	Human dorsal anterior cingulate cortex neurons mediate ongoing behavioral adaption Sameer Sheth, Matthew Mian, Shaun R. Patel, Wael Asaad, Ziv Williams, Darin Dougherty, George Bush, Emad Eskandar <i>Human Single Unit Conference</i>	New York, NY

2011	Single-neuronal responses during tool selection in the human prefrontal cortex Matthew Mian, Sameer Sheth, Shaun R. Patel, Kostas Spiliopoulous, Emad Eskandar, Ziv Williams <i>Human Single Unit Conference</i>	New York, NY
2011	Single neuron responses in the human nucleus accumbens during a financial decision-making task Shaun R. Patel, Sameer Sheth, Matthew Mian, John Gale, Benjamin Greenberg, Darin Dougherty, Emad Eskandar <i>Boston University Neuroscience Day</i>	Boston, MA
2010	Modulation of primate hippocampal local-field potential during learning Shaun R. Patel, Jason Gerrard, Emad Eskandar <i>Society for Neuroscience</i>	San Diego, CA
2010	A virtual place cell? Virtual place cell related responses in the primate hippocampal complex spike cells Jason Gerrard, Shaun R. Patel, Emad Eskandar <i>Society for Neuroscience</i>	San Diego, CA
2010	Modulation of primate hippocampal local-field potential during learning Shaun R. Patel, Jason Gerrard, Emad Eskandar <i>Society for Neuroscience</i>	San Diego, CA
2010	Human ventral striatum neurons encode reward expectation Christian Camargo, Sameer Sheth, Shaun R. Patel, Matthew Mian, Alice Flaherty, Emad Eskandar <i>American Association of Neurological Surgeons</i>	Philadelphia, PA
2010	A visual-spatial task dependent oscillation in the primate hippocampus Jason Gerrard, Shaun R. Patel, John Gale, Emad Eskandar <i>Society for Neuroscience</i>	Chicago, IL

research support

2014-19	DARPA SUBNETS Project Title: Transdiagnostic restoration of affective networks by systematic, function-oriented real-time modeling and deep brain stimulation Role: Research Fellow (PI - Eskandar, Dougherty) Description: Key role in collecting and analyzing non-human primate and human intraoperative data Total: \$30,000,000
2017-19	NIH - LRP Title: Closed-loop Deep Brain Stimulation for OCD Role: Principal Investigator Total: \$90,000
2014-15	Microsoft Research Grant Title: Reading and Writing the Neural Code Role: Principal Investigator Total: \$20,000
2013-15	Dana Foundation Title: Identifying optimal targets and stimulation protocols for the treatment of psychiatric disorders Role: Research Associate (PI - Eskandar) Description: Key role in collecting preliminary data, preparing grant, and executing research plan Direct Costs: \$250,000
2013-15	Sackler Foundation Title: Single neuron responses in the human nucleus accumbens during a decision-making task Role: Principal Investigator Direct Costs: \$15,000
2011-12	Parkinson's Disease Foundation Title: Role of beta activity within the primate basal ganglia Role: Principal Investigator Direct Costs: \$3,000

invited talks

2015	Reading and Writing the Neural Code <i>Harvard University</i>	Boston, MA
2013	Single neuron computations of decision-making in the human brain <i>Boston University School of Medicine</i>	Boston, MA
2013	Decision-making signals: correlation and causation <i>Harvard Business School</i>	Boston, MA
2012	Single neuron computations of decision-making in the human brain <i>McLean Hospital</i>	Belmont, MA
2011	Modulation of primate hippocampal local-field potentials during learning <i>Brown University</i>	Providence, RI

patents

2012	Brain stimulation for enhancement of learning, motivation, and memory Shaun R. Patel, John Gale, Emad Eskandar <i>World Patent, WO/2012/006319</i> <i>US Patent, US/2013/0184781</i>	
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teaching

2017	Instructor, Reading and Writing the Neural Code <i>Harvard University</i>	
2017	Professor, Introduction to Neuroscience <i>National Student Leadership Conference</i> <i>Harvard Medical School</i>	
2017	Instructor, Introduction to Data Science <i>Harvard University</i>	
2017	Instructor, Introduction to Neuroscience <i>Harvard University</i>	
2016	Instructor, Reading and Writing the Neural Code <i>Harvard University</i>	
2016	Teaching Fellow, Brain and Behavior [MCB 80] <i>Harvard University</i>	
2016	Professor, Introduction to Neuroscience <i>National Student Leadership Conference</i> <i>Harvard Medical School</i>	
2015	Instructor, Reading and Writing the Neural Code <i>Harvard University</i>	
2014	Co-Instructor, Educational Neurophysiology <i>Boston University School of Medicine</i>	
2014	Lecturer, Methods in Neuroscience, Single Unit Physiology <i>Boston University School of Medicine</i>	
2013	Teaching Assistant, Cognitive Neuroscience <i>Boston University School of Medicine</i>	
2012	Teaching Assistant, Medical Neuroscience <i>Boston University School of Medicine</i>	

- 2012 Teaching Assistant, Cellular Organization of Tissues
Boston University School of Medicine
- 2011 Teaching Assistant, Cognitive Neuroscience
Boston University School of Medicine
- 2010 Teaching Assistant, Medical Neuroscience
Boston University School of Medicine

society memberships

- 2012- Sigma Xi Society
- 2012- American Physiological Society
- 2012- Cognitive Neuroscience Society
- 2012- Society for Neuroeconomics
- 2009- Society for Neuroscience

mentorship

- 2017- Jessica Briscoe Medical Student, Geisinger Commonwealth School of Medicine, HHMI Fellow
- 2016- Andrew Hawkins Medical Student, Boston University School of Medicine
- 2016- Aarthi Minisandram Medical Student, Tufts University School of Medicine
- 2015- Eagon Meng Undergraduate Student, Harvard University
- 2016-17 Abhishek Desai Medical Student, Boston University School of Medicine
- 2016-16 Maria Lai Undergraduate Student, Harvard University
- 2015-16 Melissa Chua Medical Student, Boston University School of Medicine
- 2015-16 Pamela Huang Medical Student, Boston University School of Medicine
- 2015-16 Bohan Chen Undergraduate Student, Northeastern University
- 2015-16 Olga Menjivar-Garcia Undergraduate Student, Northeastern University
- 2014-15 Eric McDonald Postgraduate Student, Northeastern University
- 2013-14 Phillip Montenegro MD/PhD Student, Boston University School of Medicine
- 2012-12 Steve Fry Undergraduate Student, Northeastern University
- 2011-11 Vaness Swantic Undergraduate Student, Northeastern University
- 2010-11 Jonathan Neal Undergraduate Student, Northeastern University

adhoc review

Cerebral Cortex
Journal of Economic Organization and Behavior
Journal of Neurophysiology
Nature Neuroscience
NeuroImage
Science Translational Medicine

technical

CODE Python, R, MATLAB, C, Objective-C, Swift, Javascript
DESIGN CAD, CSS, Adobe Illustrator, Adobe Photoshop
MARKUP HTML, Markdown, \LaTeX