

Sheyna Elizabeth Gifford, M.D.

M.Sc. ▫ EMT-Cardiac

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Education

M.A. student and Jackson Fellow Science Health and Technology Communication University of Southern California, Los Angeles CA	2014-ongoing
M.B.A., Healthcare Management St. George's University, Grenada	2014-ongoing
M.D., with honors for service and leadership St. George's University, Grenada	2009-2013
M.Sc., Biotechnology and Clinical Laboratory Science University of Rhode Island, Providence RI	2006
B.A., Neuroscience and English University of California, Berkeley	2003

Selected Published Work (4 shown of 45 published in the past year)

Gifford, S. E. July 25th, 2014. **Methane, CFCs and Signs of Extraterrestrial “Intelligence” - See more.** <http://www.astrobio.net/news-exclusive/unintelligent-life-cfcs/#sthash%2E08AhVzqf%2Edpuf>. Accessed 10/7/14.

Gifford, S.E. July 2, 2014. **Resurrected proteins, alternate histories and a sure path to modern physiology.** Phys.org. <http://phys.org/news/2014-07-resurrected-proteins-alternate-histories-path.html>. Accessed 9/8/2014.

Gifford, S.E. June 6, 2014. **Waiting in the Wings: Computer Model Accurately Predicts Cellular Adaptation.** Astrobiology Magazine. <http://www.astrobio.net/news-brief/waiting-wings-computer-model-accurately-predicts-cellular-adaptation/#sthash%2EnT8Hh2HK%2Edpuf>. Accessed 9/8/2014.

Gifford, S.E. April 24, 2014. **Life's Engine: The Early Ocean.** Astrobiology Magazine. Retrieved from: <http://www.astrobio.net/exclusive/6143/life%E2%80%99s-engine-the-early-ocean>. Accessed 5/7/2014.

Science Communication Experience

Contributing Writer , Astrobiology Magazine NASA, Goddard Space Center	2013-current
Episode Writer , Neil deGrasse Tyson's Star Talk Radio	2013-current

Research Experience

Volunteer Research Assistant, Rehabilitation Neuroscience Laboratory 2014
University of Missouri, Department of Psychological Sciences, Columbia MO
Supervisor: Dr. Scott Frey

- Designed a transcranial direct current stimulation (tDCS) study of arm sensory therapy

Research Assistant 2008-2009
University of California, Irvine. Developmental Neuroscience, Department of Pediatrics.
Supervisor: Dr. Curt Sandman

- Analyzed data from functional and high-resolution anatomical MRI studies
- Trained graduate students in the use of data analysis techniques
- Authored data analysis scripts and instructional material

Research Assistant, Neuroimaging Center 2006-2008
Brown University, Department of Neuroscience, Providence RI
Supervisor: Dr. Michael Worden

- Investigated ADHD, language use, motor function in amputees, and the neural correlates of attention using fMRI.
- Trained professors, graduate and undergraduate students in data analysis techniques

Clinical Laboratory Manager, Psychophysiology Laboratory 2004-2005
Harvard University, Department of Social Psychology, Cambridge MA
Supervisor: Dr. Wendy Berry Mendes

- Established new Harvard Psychophysiology Laboratory
- Constructed computer cluster and subject testing center
- Trained undergraduate and graduate students in data analysis techniques

Research Assistant, Neurogenetics Lab 2003-2004
Massachusetts General Hospital, Cambridge MA

- Evaluated the impact of varying trinucleotide repeat expansion on mitochondrial energy production in Huntington's disease
- Managed experimental animal facility

Research Assistant, Social Psychology Lab 2002-2003
University of California, Berkeley, Department of Psychology

- Conducted inter-cultural studies of physiological correlates of mood and empathy
- Recruited and reviewed matched research subjects

Invited Lectures

California State University, Long Beach, School of Journalism April 2011
“Come here often? Journalistic Integrity Meets Medical Ethics”

California State University, Long Beach, School of Journalism Dec. 2008
“HIPPA for Journalists”

Conference Presentations

Gifford SE, Takeshige T. **Mass-querade: Elevated AFP due to a benign tumor.** Poster presented at: 2012 Annual New York Chapter ACP Scientific Meeting; Friday, August, 24, 2012. Albany, New York, USA.

Gifford SE, Takeshige T, Saskin H, Mercado R. **Cell-out: Ovarian Cystadenoma Falsely Advertises Malignancy with Elevated AFP.** Poster Presented at: Lincoln Hospital Annual Research Competition; May 18, 2012. New York City, New York, USA.

Gifford SE, Mafudhi N, Thomas T, Dimitrov V. **An elderly female patient presenting with spontaneous bilateral rectus sheath hematoma.** Poster Presented at: Lincoln Hospital Annual Research Competition; May 18, 2012. New York City, New York, USA.

Gifford SE, Lu A, Casasnovas C, Otero J. **Seroquel Dependence and Withdrawal in a Patient with a History of Schizophrenia and Drug Abuse.** Poster Presented at: Lincoln Hospital Annual Research Competition; May 18, 2012. New York City, New York, USA.

Awards, Service, and Leadership

Lambda Pi Eta Journalism Honors Society University of Southern California	2014
Advocacy Committee Member , American Academy of Emergency Medicine	2014
Midwest Regional Finalist , FameLab USA science communication competition	2014
Gold Humanism in Medicine Honor Society (GHHS) inductee	2012
Class Valedictorian , EMT-CARDIAC	2006
Student Government Representative St. George's University	2010-2013
Co-Founder and President , Humanitarian Service Organization St. George's University • Founded a Community-Based, Volunteer-staffed, Free Mobile Medical Clinic	2009-2011
Team Leader , Mars Suit Design Project NASA HEDS-UP program, University of California, Berkeley	1998-2000

Medical Education/Advocacy

Emergency Medicine Lecturer : Paramedic Board Review Course	2014-2015
Author , EM Basic podcast: Psychiatric Emergency Medicine http://embasic.org/psychiatric-emergencies-part-1/ http://embasic.org/psychiatric-emergencies-part-2/	2014