

# Jason D. Runyan

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Associate Professor

4201 S. Washington St. | 765-677-2992 | jason.runyan@indwes.edu

Indiana Wesleyan University | Marion, IN 46953, USA

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## Education:

- 2005-10: *Doctorate of Philosophy*, University of Oxford, England.
  - 2004-05: *Masters of Study*, University of Oxford, England.
  - 2001-03: *Masters of Science*, University of Texas, Health Science Center.
  - 1997-01: *Bachelors of Art*, Wheaton College, Wheaton, IL.
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## Awards & fellowships:

- 2014-15: *Lilly Research Award*, Indiana Wesleyan University
- 2013-14: *Lilly Research Award*, Indiana Wesleyan University
- 2011-14: *Hind's Fellowship Award*, Indiana Wesleyan University
- 2012: Research Fellow, *The Center for Christian Thought*, Biola University
- 2011-12: *Lilly Research Award*, Indiana Wesleyan University
- 2010-11: *The President's Young Scholar Fellowship*, Indiana Wesleyan University.
- 2010: Grant for psychological research on spiritual formation (along with Drs. Doug Dougherty, Brian Fry and Tim Steenbergh). *Lilly Foundation: Faculty Research Award*.
- 2009: Grant for researching spiritual development and parallels with spirituality in successful addictions recovery (along with Drs. Doug Dougherty, Brian Fry and Tim Steenbergh). *National Institute of Health Grant*.
- 2005 & 2007: *The Squire Marriott Bursary Fellowship*, University of Oxford.
- 2006: Accepted and fully-funded for the *Center for Theology & the Natural Science's* Science and Transcendence Advanced Research Seminar Series; Yucatan Peninsula, Mexico. *The John Templeton Foundation*.
- 2006: Awarded a travel grant, Faculty of Theology, University of Oxford.
- 2003: *Dee S. and Patricia Osborne Endowed Fellowship*, University of Texas.
- 2003: Best Research Award, 10<sup>th</sup> Annual Research Presentation Session, Neuroscience Research Center, University of Texas.
- 2003: 22<sup>nd</sup> Annual McGovern Research Award, University of Texas.
- 2001-03: Awarded a Research Assistantship Stipend, University of Texas, Houston Medical School.

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## Publications:

### *Books & Chapters:*

Runyan, JD, *Human Agency and Neural Causes: Philosophy of Action & the Neuroscience of Voluntary Agency* (Palgrave Macmillan, 2013).

Dash PK, Runyan JD, Blum S, Hebert AE, Papanicolaou, A. 'Putative Cerebral Mechanisms of Memory', in A. Papanicolaou (ed.) *The Amnesias: A Clinical Textbook of Memory Disorders* (New York: Oxford University Press, 2005).

### *Articles:*

Runyan JD. (*forthcoming*) Wired and virtuous: Virtues, ecological momentary assessment/intervention and smartphones. *Frontiers in Psychology*.

Runyan JD (2014) Are we free? *The Table: The Blog for the Biola University Center for Christian Thought*.

Runyan JD, Steenbergh TA, Bainbridge C, Daugherty DA, Oke L, Fry BN (2013) A smartphone ecological momentary assessment/Intervention "app" for collecting real-time data and promoting self-awareness. *PLoS ONE* 8(8): e71325. doi:10.1371/journal.pone.0071325.

Runyan, JD (2013) On the neuroscience of the afterlife: What the brain can tell us about life after death. *The Table: The Bulletin for the Biola University Center for Christian Thought*. 1: 10-11.

Steenbergh, TA, Runyan, JD, Daugherty, D, Winger JG (2012) Neuroscience exposure and perceptions of client responsibility among addictions counselors. *Journal of Substance Abuse Treatment*. 42: 421-428.

Runyan, JD, Kreitzer, M (2010) The Neuroscience of Religious Experience—A Review Essay. *Christian Scholars Review*. 39 (2): 469-477.

Dash, PK, Moore, AN, Kobori, N, Runyan JD (2007) Molecular activity underlying working memory. *Learning and Memory*. 14 (8): 554-563.

Blum S, Runyan JD, Dash PK (2006) Inhibition of prefrontal protein synthesis following recall does not disrupt memory for trace fear conditioning. *BMC Neuroscience*. 7(1): 67.

Runyan JD, Moore AN, Dash PK (2005) A role for prefrontal calcium-sensitive protein phosphatase and kinase activities in working memory. *Learning and Memory*. 12(2): 103-110.

Runyan JD, Dash PK (2005) Distinct prefrontal molecular mechanisms for information storage lasting seconds versus minutes. *Learning and Memory*. 12(3): 232-238.

- Struthers WM, DuPriest A, and Runyan J (2005) Habituation reduces novelty-induced FOS expression in the striatum and cingulate cortex. *Experimental Brain Research*. 167(1): 136-40.
- Runyan JD, Moore AN, Dash PK (2004) A role for the prefrontal cortex in memory storage for trace fear conditioning. *The Journal of Neuroscience*. 24(6): 1288-1295.
- Dash PK, Hebert AE, Runyan JD (2004) A unified theory of memory consolidation. *Brain Research Reviews*. 45(1): 30-37.
- Runyan JD, Dash PK (2004) Inhibition of hippocampal protein synthesis following recall disrupts episodic-like memory in trace conditioning. *Hippocampus*. 15(3): 333-9.
- Runyan JD, Dash PK (2004) Intra-prefrontal administration of SCH-23390 attenuates Erk phosphorylation and long-term memory for trace fear conditioning in rats. *Neurobiology of Learning and Memory*. 82(2): 65-70.

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#### Academic lectures & presentations:

- 'An Ecological Momentary Gratitude Intervention Increases and Stabilizes Mood in the Moment'. Association for Psychological Science Convention. San Francisco, CA. *Summer 2014*.
- 'Individual Differences Associated With Use of a Smartphone App-based EMA/I System'. Association for Psychological Science Convention. San Francisco, CA. *Summer 2014*.
- 'Effects of a Smartphone-Delivered Gratitude Intervention Assessed by Ecological Momentary Assessment'. Midwest Psychological Association. Chicago, IL. *Spring 2014*.
- 'Reply to Richard Swinburn'. Neuroscience and the Soul Conference. Center for Christian Thought, Biola University. *Spring 2013*.
- 'Neuroscience, Dualism & Freewill'. Center for Christian Thought Seminar. Biola University. *Fall 2012*.
- 'iHabit: A New Approach to EMA [Ecological Momentary Assessment]'. American Psychological Association Annual Convention. Orlando, FL. *Summer 2012*.
- 'Integration of Christian faith and neuroscience'. Faculty Retreat. Indiana Wesleyan University. *Fall 2009*.
- 'Voluntary agency in Christian theology and neuroscience'. Graduate Seminar Series. University of Oxford. *November 2006*.
- 'The domain-specificity of scientific theories and their laws'. Graduate Seminar Series. University of Oxford. *January 2006*.
- 'Conscious of consciousness: causal reductionism, neuroscience research, and phenomenology'. Graduate Seminar Series. University of Oxford. *February 2005*.

- 'A role for prefrontal cortex memory storage in trace conditioning retention'. 10<sup>th</sup> Annual Neuroscience Presentation Session, Neuroscience Research Center. University of Texas. *December 2003*.
- 'Prefrontal cortex stores long-term memory in trace fear conditioning'. 22<sup>th</sup> Annual University of Texas Research Day. *November 2003*.
- 'Plasticity within the rat prefrontal cortex is required for retention of trace conditioning'. Society of Neuroscience 31<sup>st</sup> annual meeting. New Orleans, LA. *November 2003*.
- 'BMP4 and Traumatic Brain Injury'. Research tutorial presentation. Neurobiology and Anatomy Dept. University of Texas. *May 2002*.
- 'Spatial selectivity in the anterior inferotemporal cortex of the macaque monkey'. Research Tutorial Presentation. Neurobiology and Anatomy Dept. University of Texas. *February 2002*.
- 'Color-selective spots in area V2 of the macaque monkey'. Research Tutorial Presentation. Neurobiology and Anatomy Dept. University of Texas. *December 2001*.

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#### Teaching experience:

- 2014: Instructor for the John Wesley Honors College, Indiana Wesleyan University.
- 2013-present: Associate Professor of Neuropsychology, Indiana Wesleyan University.
- 2010-2013: Assistant Professor of Neuropsychology, Indiana Wesleyan University.
- 2008-9: Instructor of Neuropsychology, Indiana Wesleyan University.
- 2006-7: *Philosophy of Neuroscience and Psychology*, University of Oxford.
- 2005-6: *Attention and Memory*, University of Oxford.
- 2005-6: *Developmental Psychology*, University of Oxford.
- 2005: *Psychology: A Levels*, Oxford Science Studies.
- 2003: Course lecturer, *Current Issues of Neuroscience*, Neurobiology and Anatomy Dept., University of Texas, Houston Medical School.
- 2002: Course lecturer, *Current Issues of Neuroscience*, Neurobiology and Anatomy Dept., University of Texas- Houston Medical School.

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#### Neuroscience research experience:

- 2003-4: *Senior Research Assistant*, Prof. Pramod Dash Laboratory, Neurobiology and Anatomy, University of Texas, Texas Medical Center.
- 2002-3: *Graduate Research Fellowship*, Prof. Pramod Dash Laboratory, Neurobiology and Anatomy, University of Texas, Texas Medical Center.
- 2002: *Graduate Research Tutorial*, Dr. Anne Sereno Laboratory, Neurobiology and Anatomy, University of Texas, Texas Medical Center.
- 2001: *Graduate Research Tutorial*, Neurobiology and Anatomy, Dr. Daniel Felleman Laboratory, University of Texas, Texas Medical Center.

- 2000-1: *Student Research Assistant*, Dr. William Struthers Laboratory, Neuropsychology, Wheaton College, IL.

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**Research interests:**

- Philosophy of neuroscience, psychology, mind & action
  - Neuropsychology
  - Ecological momentary assessment (EMA)
  - Theological anthropology
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