

# Jason D. Runyan

4201 S. Washington St. – Marion, IN 46953

765.243.1301 – [jason.runyan@indwes.edu](mailto:jason.runyan@indwes.edu)

## Education

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- 2010, DPhil, University of Oxford
- 2005, MSt, University of Oxford
- 2003, MS, Neuroscience, University of Texas
- 2001, BA, Psychology and Theology, Wheaton College, IL

## Positions

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### **Professor**

#### **Honors College & Psychology**

2018-present

Indiana Wesleyan University

### **Co-founder, LifeData LLC**

2014-present

[lifedatacorp.com](http://lifedatacorp.com)

### **Co-Principle Investigator**

#### **EMA Lab**

2011-2018

Indiana Wesleyan University

[emaresearch.org](http://emaresearch.org)

### **Research Fellow**

#### **Lumen Research Institute**

2015-2018

Excelsia College, Sydney Australia

### **Associate Professor**

#### **Honors College & Psychology**

2013-2018

Indiana Wesleyan University

### **Faculty Vice-Chair**

#### **College of Arts & Sciences**

2016-17

Indiana Wesleyan University

### **Assistant Professor**

#### **Psychology**

2010-13

Indiana Wesleyan University

**Instructor****Psychology**

2008-09

Indiana Wesleyan University

**Tutor****Philosophy of Neuroscience**

2006-07

University of Oxford

**Senior Research Assistant****Dash Lab**

2003-04

University of Texas

**Research Fellow****Dash Lab**

2002-03

University of Texas

## Awards & Fellowships

- 2019-present, Lilly Research Grant, Indiana Wesleyan University
- 2019, Sabbatical, Indiana Wesleyan University
- 2015-18, Research Fellow, Lumen Research Institute, Excelsia College
- 2017-18, Lilly Research Grant, Indiana Wesleyan University
- 2015-16, Hind's Research Fellowship, Indiana Wesleyan University
- 2013-14, Hind's Research Fellowship, Indiana Wesleyan University
- 2011-12, Hind's Research Fellowship, Indiana Wesleyan University
- 2014-15, Lilly Research Grant, Indiana Wesleyan University
- 2013-14, Lilly Research Grant, Indiana Wesleyan University
- 2011-12, Lilly Research Grant, Indiana Wesleyan University
- 2010, Lilly Research Grant, Indiana Wesleyan University
- 2012, Research Fellow, Biola University
- 2010-11, President's Young Scholar Award, Indiana Wesleyan University
- 2009, National Institute of Health Grant
- 2007, Squire Marriot Fellowship, University of Oxford
- 2006, Travel Grant, Advanced Research Seminar Series in Science and Religion, John Templeton, Yucatan Peninsula, Mexico
- 2005, Squire Marriot Fellowship, University of Oxford
- 2003, Dee S. and Patricia Osborne Endowed Fellowship, University of Texas
- 2003, Best Graduate Research Award, 10<sup>th</sup> Annual Research Presentation Session, Neuroscience Research Center, University of Texas.
- 2003, 22<sup>nd</sup> McGovern Research Award, Houston Science Center, University of Texas
- 2001-03, Research Fellowship, University of Texas, Houston Medical School

# Publications

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## Chapters & Books

- Runyan, JD, 'Emergence and causal agents: A reply to Moreland', in T. Crisp, S. Porter, G. Ten Elshof (eds.), *Neuroscience and the Soul: The human person in philosophy, science and theology* (Eerdmans, 2016).
- Morin, A., Runyan, JD, Brinthaup, TM (eds.), *Inner Experiences: Theory, Measurement, Frequency, Content, and Functions* (Frontiers in Psychology: Cognitive Psychology, 2015).
- 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* (Oxford University Press, 2005).

## Papers

- Runyan, JD (*in process*). A dispositional account of intentional behavior, urges, and readiness potentials.
- Runyan, JD (2020). The enchanted and dappled place we live. *Sapientia: A periodical of the Henry Center*. Symposium on S.L. Ritchie's *Divine Action and the Human Mind*. <https://henrycenter.tiu.edu/2020/06/the-enchanted-and-dappled-place-we-live/>. *Invited contribution*
- Runyan, JD (2019). The convention and neuroscience of free will. *Sapientia: A periodical of the Henry Center*. Church and Culture Symposium. <https://henrycenter.tiu.edu/2019/12/the-convention-and-neuroscience-of-free-will/>. *Invited contribution*
- Runyan, JD, Moore, AN, Dash, PK (2019). Coordinating what we've learned about memory consolidation. *Biobehavioral and Neuroscience Review*. 100: 77-84.
- Runyan, JD, Fry, BN, Steenbergh TA, Arbuckle, NL, Dunbar\*, K, Devers, EE (2019). Using experience sampling to examine links between compassion, eudaimonia, and prosocial behavior. *Journal of Personality*. 87(3): 690-701.
- Dougherty, DA, Steenbergh, TA, Runyan, JD, Fratzke, BJ, Fry, B (2018). Smartphone Delivery of a Hope Intervention: Another Way to Flourish. *PLoS ONE*. doi: 10.1371/journal.pone.0197930.
- Devers, EE, Runyan, JD (2018). The impact of thinking fast and slow on the evangelical mind. *Christian Scholars Review* 47(4): 433-444.
- Fry, BN, Runyan, JD (2017). Teaching empathic concern and altruism in the smartphone age. *Journal of Moral Education*. 47(1): 1-16.
- Runyan, JD (2017). Agent-causal libertarianism, statistical neural laws and wild coincidences. *Synthese*. 195(10): 4563-4580.

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\* Undergraduate student author

- Runyan JD (2016). Events, agents, and settling whether and how one intervenes. *Philosophical Studies*. 173(6): 1629-1646.
- Daugherty, DA, Fratzke, BJ, Steenbergh, TA, Runyan, JD & Fry, B (2016). Assessment and intervention in the wild: Possibilities for redeeming the smartphone. *Journal of Psychology & Christianity*. 35(1): 77-82.
- Runyan JD and Steinke\*, E (2015). Virtues, ecological momentary assessment/intervention and smartphones. *Frontiers in Psychology: Cognitive Psychology*. doi: 10.3389/fpsyg.2015.00481.
- Morin, A., Runyan, JD, Brinthaup, TM (2015). Editorial: Inner Experiences: Theory, Measurement, Frequency, Content, and Functions. *Frontiers in Psychology: Cognitive Psychology*. doi: 10.3389/fpsyg.2015.01758.
- 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.
- 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.

## Talks & Presentations

*Reply to Denis Alexander's 'Divine Action and Concordism'*. Dabar Conference, Henry Center. *Invited speaker*

*The heartbeat of compassion: Measuring HRV in the lab and daily life*. Association of Psychological Science Convention. San Francisco, CA. *Spring 2018*.

*Compassion, culpability, and heart rate measures: A pilot study*. Association of Psychological Science Convention. San Francisco, CA. *Spring 2018*.

*A pilot study of compassion, culpability, and heart rate measures*. Midwestern Psychological Association Convention. Chicago, IL. *Spring 2018*.

Festival of Spiritual Formation. College Wesleyan Church. *Spring 2018. Invited speaker*

'Worship as edifying the Body'. Worship seminar and workshop. Namur, Belgium. *Summer 2017. Invited speaker*

'Automaticity, free will experiments, and human agency'. Mini-Conference on Science and Religion. Crown College, MN. *Spring 2017. Invited speaker*

'An empathy ecological momentary intervention: using smartphones to foster attentiveness'. Midwestern Psychological Association Convention. Chicago, IL. *Spring 2017*.

'Smartphone-based ecological momentary assessment: Understanding life as it's lived'. NIH Distinguished Speaker Series. Washington State University. *Spring 2016. Invited speaker*

'mSuccess: Using smartphones to foster success among first-year students'. First Year Experience Conference. Orlando, FL. *Spring 2016*.

'A smartphone-app based experience sampling study of compassion and flourishing'. Association of Psychological Science Convention. Chicago, IL. *Spring 2016*.

'Stability in compassion, stability in flourishing: An experience sampling study'. Midwestern Psychological Association Convention. Chicago, IL. *Spring 2016*.

'Smartphone-based assessment: New possibilities for understanding life as it is lived'. Indiana University/Purdue University, Indianapolis. *Fall 2015. Invited speaker*

'Qualitative analysis of gratitude expressions collected using ecological momentary assessment'. Association for Psychological Science Convention. New York, NY. *Summer 2015*.

'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'. Midwestern Psychological Association Convention. Chicago, IL. *Spring 2014*.

'Researcher Looking for Meaningful Relationship with Smartphone User: Data Suggests Long-Term Possibilities'. Midwestern Psychological Association Convention. Chicago, IL. *Spring 2014*.

'Reply to Richard Swinburne'. Neuroscience and the Soul Conference. Center for Christian Thought, Biola University. *Spring 2013. Invited Speaker*

'Neuroscience, dualism & freewill'. Center for Christian Thought Seminar. Biola University. *Fall 2012. Invited Speaker*

'iHabit: A new approach to EMA [Ecological Momentary Assessment]'. American Psychological Association Annual Convention. Orlando, FL. *Summer 2012*.

'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*.

## Teaching & Institutional Service

- I have designed and taught the following undergraduate courses:
  - (HNR-270) *What is Humanity?* (an interdisciplinary general education course for the John Wesley Honors College);
  - (PSY-475/BIO-396) *Integrative Neuroscience* (with Matthew Kreitzer);
  - (PSY-327) *Learning & Cognition*;
  - (PSY-355) *Research Methods for Behavioral Sciences* (with Tim Steenbergh);
  - (PSY-322) *Physiological Psychology*;
  - (MAT-305) *Statistics for Social Sciences* (with Tim Steenbergh).
  - (PSY-390) *Psychology of Spiritual Formation*.

- I have created an online version of (MAT-305) *Statistics for Social Sciences*.
- I have successfully supervised 4 (out of 4) honors undergraduate theses.
- I have led student trips to Haiti and Ethiopia.
- I have aided with curricular design, assessment, and mapping as part of the Psychology Department and John Wesley Honors College.
- I have mentored three new faculty members.
- In 2017-19, I served on the General Education faculty committee.
- In 2016-17, I served as Faculty Vice-Chair for the College of Arts and Sciences.
- In 2015-16, I organized faculty seminars on Science and Christian Faith.