

SHAWN RHOADS

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EDUCATION

2017- **Ph.D. in Psychology** (Lifespan Cognitive Neuroscience)

Faculty Advisor: Dr. Abigail Marsh

Georgetown University

2012-16 **Bachelor of Arts in Physics**

Bachelor of Arts in Psychology with Departmental Honors

Cumulative GPA: 3.50, Dean's List

University of Southern California (USC)

Relevant Coursework:

Neuroscience & Psychology: Functional Imaging of the Human Brain; Cognitive Neuroscience; Behavioral Neuroscience; Social Psychology; Experimental Research Methods; Non-experimental Research Methods

Physics: Advanced Experimental Techniques; Quantum Mechanics; Thermodynamics and Statistical Mechanics; Electricity and Magnetism; Mechanics

RESEARCH GRANTS

- 2016 USC Undergraduate Research Associates Program Award – \$1,500
- 2016 USC Undergraduate Student Government Academic Research Award – \$800
- 2015 USC Student Opportunities for Academic Research Award – \$1,000
- 2015 USC Summer Undergraduate Research Fund Award – \$3,000
- 2015 USC Undergraduate Research Associates Program Award – \$1,000
- 2014 USC Student Opportunities for Academic Research Award – \$1,000
- 2014 USC Summer Undergraduate Research Fund Award – \$3,000
- 2013 USC Student Opportunities for Academic Research Award – \$1,000
- 2013 Hong Kong & Shanghai Banking Corp STEM Fellows Program Award – \$4,000

HONORS AND AWARDS

- 2016 **USC Discovery Scholars Distinction**
Honor for graduating students who excel in the classroom while demonstrating the ability to create exceptional new scholarship through an independent research project
- 2016 **Order of Troy**
Recognition granted to a USC graduate who has excelled academically with dedication to leadership in various facets of university life
- 2016 **Arnold Schwarzenegger "Be the Change" Spotlight Award**
Recognition for USC students' civic engagement that acknowledges individuals who are inspirational examples of the power of one person to make a difference

- 2015 **Undergraduate Student Government Program Board Director of the Year**
Recognition awarded to a student leader who has exhibited outstanding contribution in terms of programs to advance the Undergraduate Student Government at USC
- 2015 **USC Peer Achievement Award for Programming**
Peer-nominated award to a student who demonstrates exceptional programming skills and service to the university from idea development through actual implementation
- 2014 **Hong Kong and Shanghai Banking Corporation Scholars Award**
Scholarship awarded to students pursuing a STEM or business-related field
- 2013 **Global East Asia (Korea) Scholarship Award**
Full-tuition award for study abroad at Ewha Womans University in South Korea
- 2011 **Asian and Pacific Islander Scholarship Fund Award**
5-year scholarship awarded for access to higher education to cultivate academic, personal and professional success
- 2009 **Eagle Scout Award with Bronze, Gold and Silver Palms**

RESEARCH EXPERIENCE

- 2016- **Lab Manager / Jr. Specialist, Human Experiences & Affective Development Lab**
Center for Mind and Brain, University of California Davis
Principal Investigators: Drs. Amanda E. Guyer and Paul D. Hastings
- 2015-16 **Research Assistant, Social Emotions Laboratory**
Brain and Creativity Institute, University of Southern California
Principal Investigator: Dr. Mary Helen Immordino-Yang
- 2013-15 **Research Assistant, Helioseismology Laboratory**
Department of Physics and Astronomy, University of Southern California
Principal Investigator: Dr. Edward Rhodes

PUBLICATIONS (IN PREP)

Chahal, R., **Rhoads, S. A.**, Marek, S., Vilgis, V., Grimm, K.J., Keenan, K., Forbes, E.E., Hipwell, A.E., & Guyer, A.E. (in prep). Girls' pubertal timing and tempo is associated with brain structural connectivity in adolescence.

Vilgis, V., Weissman, D. G., **Rhoads, S. A.**, Gelardi, K. L., Forbes, E. E., Hipwell, A. E., Keenan, K., Robins, R. W., Hastings, P. D., & Guyer, A. E. (in prep). How sad are you? Probing the neural correlates of sadness introspection: A cross-site replication.

Gotlieb, R., Yang, X. F., **Rhoads, S. A.**, Riveros, R., & Immordino-Yang, M. H. (in prep). Adolescents' empathic reaction to others' triumph over adversity is positively related to intrinsic default mode network connectivity.

CONFERENCE SYMPOSIA

Chahal, R., **Rhoads, S. A.**, Hipwell, A. E., Forbes, E. F., Keenan, K., & Guyer, A. E. (2017, April) Childhood economic disparity and alterations in white matter integrity in late adolescence. Symposium to be presented at the *Society for Research in Child Development* meeting, Austin, TX.

CONFERENCE POSTER PRESENTATIONS

Neuroscience

Chahal, R., **Rhoads, S. A.**, Marek, S., Vilgis, V., Grimm, K. J., Keenan, K., Forbes, E. E., Hipwell, A. E., & Guyer, A. E. (2017, June). Brain network architectural development is associated with pubertal timing and tempo. Poster to be presented at the *Organization for Human Brain Mapping* meeting (accepted), Vancouver, Canada.

Rhoads, S. A., Vilgis, V., Forbes, E. E., Hipwell, A. E., Keenan, K., & Guyer, A. E. (2017, March). Probing the neural correlates of sadness introspection: A new variation of a face-emotion fMRI task. Poster presented at the *Social and Affective Neuroscience Society* meeting, Los Angeles, CA.

Gotlieb, R., Yang, X. F., **Rhoads, S. A.**, Riveros, R., & Immordino-Yang, M. H. (2016, November). Adolescents' empathic reactions to others' triumph over adversity are positively related to intrinsic default mode network connectivity. Poster presented at the *Society for Social Neuroscience* meeting, San Diego, CA.

Gotlieb, R., Yang, X. F., **Rhoads, S. A.**, Riveros, R., & Immordino-Yang, M. H. (2016, September). Adolescents' empathic reactions to others' triumph over adversity are positively related to connectivity at rest between the default mode network and the anterior insula. Poster presented at the *International Mind, Brain and Education Society* conference, Toronto, Canada.

Gotlieb, R., Yang, X. F., **Rhoads, S. A.**, Riveros, R., & Immordino-Yang, M. H. (2016, July). Adolescents' empathic reactions to others' triumph over adversity are positively related to intrinsic default mode network connectivity. Poster presented at the *Federation of all European Neuroscience Societies* forum, Copenhagen, Denmark.

Rhoads, S. A., Yang, X. F., Riveros, R., Rotenstein, V., Immordino-Yang, M. H. (2016, January). Adolescents' resting state brain connectivity is positively related to digital media use for social purposes, but negatively related to digital media use for non-social purposes. Poster presented at the *Society for Personality and Social Psychology* convention, San Diego, CA.

Rhoads, S. A., Yang, X.F., Riveros, R., Rotenstein, V., Immordino-Yang, M. H. (2015, October). Adolescents' resting state brain connectivity is positively related to social media use, but negatively related to non-social media use. Poster presented at the *National Academy of Sciences Colloquia on Digital Media and Developing Minds*, Irvine, CA.

Psychology

Rhoads, S. A. & Kaplan, J. T. (2015, April). The role of identity in belief flexibility. Poster presented at the *Undergraduate Symposium for Scholarly & Creative Work*, Los Angeles, CA. (**Psychology Undergraduate Honors Thesis**)

Physics and Astronomy

Chen, C., Hernandez, C., Nishinaka, A., **Rhoads, S. A.**, Singh, S., Yang, Y., Kosovichev, A., Larson, T., Reiter, J., Pinkerton, S., Rhodes, E. (2015, April). New estimates of the speed of sound in the outer solar interior. Poster presented at the *Undergraduate Symposium for Scholarly & Creative Work*, Los Angeles, CA.

Campbell, D., Fulmer, N., Hernandez, C., **Rhoads, S. A.**, Singh, S., Yang, Y., Rhodes, E. (2014, April). Demonstration of unique seismic properties of 2008-2009 solar minimum. Poster presented at the *Undergraduate Symposium for Scholarly & Creative Work*, Los Angeles, CA.

Rising, J., Campbell, D., **Rhoads, S. A.**, Rhodes, E. (2013, April). Temporal changes in solar pressure oscillations. Poster presented at the *Undergraduate Symposium for Scholarly & Creative Work*, Los Angeles, CA.

PROFESSIONAL MEMBERSHIPS

- 2016- Social and Affective Neuroscience Society
- 2015- Society of Personality and Social Psychology
- 2014- Psi Chi, International Honor Society in Psychology

SPECIALIZED SKILLS

Programming

High Proficiency: MATLAB (2011-), HTML/CSS (2015-), UNIX (2013-)
Growing Proficiency: R (2015-), Python (2015-), JavaScript (2015-), SQL (2017-)

Applications

Statistical Parametric Mapping (SPM) (2015-)
FMRIB Software Library (FSL) (2015-)
Functional Connectivity Toolbox (CONN) (2015-)
Brain Connectivity Toolbox (BCT) (2016-)
Artifact Detection Toolbox (ART) (2015-)
SPSS (2012-)
Microsoft Excel (2006-)
Qualtrics (2012-)
Mathematica (2012-)
Adobe Photoshop (2011-)
CompTIA A+ Certification (2011)

NON-ACADEMIC INVOLVEMENT AND EXPERIENCE

2015-16 USC Green Engagement Fund, Co-Founder & Chair

Accomplishments:

- Served as a leading architect of the bylaws, allocation, and procedure for the distribution of \$90,000 towards student-driven sustainability projects at USC
- Received a total of \$169,816.01 grant requests during its first year

2015 Know Tomorrow, National Day of Action Event Director

Accomplishments:

- Pioneered a synchronous day of action with students on 70 college campuses across the nation to amplify a message to combat climate change
- Helped orchestrate 40,000+ student signatures, which were delivered by Vice President Al Gore to demand strong commitment at the 21st Conference of the Parties (COP21) to the United Nations Framework Convention on Climate Change

2013-15 USC Environmental Student Assembly, Founding Executive Director

Accomplishments:

- Established student assembly to unite and serve as a resource to all students and organizations that seek to expand environmental action and awareness on campus
- Collaborated with 22 students, faculty and administrators to compose a [comprehensive sustainability plan](#) for the university to be implemented by 2020
- Transformed an initial budget of \$5000 into \$50,000 through sponsorships across 85 original large-scale sustainability events and programs over two years for the entire 18,000 USC student population

2013-14 USC Program Board, Finance Director & Sponsorship Director of Special Events

Accomplishments:

- Raised \$49,000 in sponsorships by forming relationships with small businesses and large corporations
- Managed a \$109,000 budget for event planning

REFERENCES

Amanda E. Guyer, Ph.D.
(Faculty Advisor in Neuroscience Research)
University of California, Davis
Professor, Department of Human Ecology and Center for Mind and Brain
(530) 297-4445
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Mary Helen Immordino-Yang, Ed.D.
(Faculty Advisor in Neuroscience Research)
University of Southern California
Associate Professor of Education, Psychology and Neuroscience
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Jo Ann Farver, Ph.D.
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Chair and Professor of Psychology
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Edward Rhodes, Ph.D.
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