

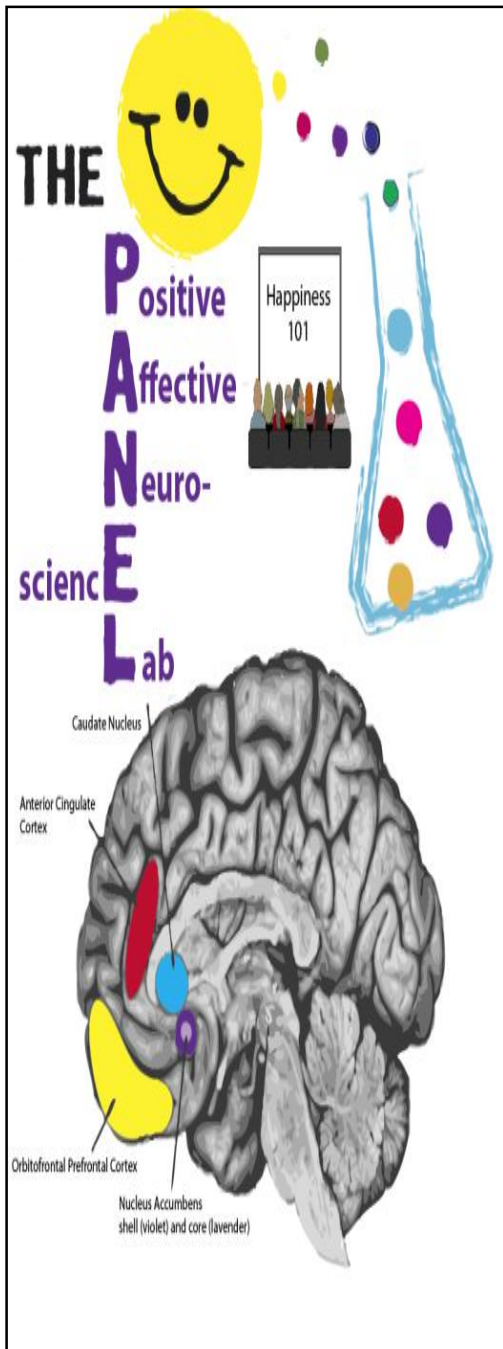
Sharee N. Light

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Psychology and Neuroscience

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Licensure

Georgia Board of Psychology
Psychologist

Education

**2013-2015 Neuropsychology Section, Department of Psychiatry
University of Michigan Medical School**

Neuropsychology Post-Doctoral Resident

Faculty/Research Advisors: Linas A. Bieliauskas, Ph.D., ABPP-CN;
Stephan Taylor, M.D.; Jon-Kar Zubieta, M.D., Ph.D.

**2004-2013 Psychology Department, University of Wisconsin-
Madison**

Doctor of Philosophy (Ph.D.)

Faculty/Research Advisor: Richard J. Davidson, Ph.D.

Major: Clinical Psychology

Minor: Neuroscience

**2000-2003 School of Education and Social Policy, Northwestern
University**

Bachelor of Science (B.S.) in Education and Social Policy

Major: Human Development and Psychological Services

Minor: Cognitive Science

Teaching

*Behavioral Neuroscience and Functional Human Neuroanatomy
(graduate level course)*

Instructor

Spring 2016 Georgia State University

- Completely new course prep
 - Creation of test items, quizzes, assignments, etc.
 - Development of class project
 - Lecture development

Functional Human Neuroanatomy (graduate level course)

Instructor

Fall 2015 Georgia State University

- Test/quiz item development
- Lecture development
- Development of class project

Psychology of Personality (undergraduate level course)

Teaching Assistant

Spring 2010 University of Wisconsin-Madison

- Creation of test items
- Grading
- Lecture development

Research

Georgia State University
Center for Advanced Brain Imaging (CABI)

Principal Investigator

2015 CABI Seed Grant recipient

IRB protocol #H15464 entitled: “Frontostriatal correlates of empathy subtypes.”

Research foci, techniques used, analysis of:

- analysis of fMRI data collected as healthy adult participants watch empathy inducing film clips in conjunction with participant’s responsivity to emotionally positive visual stimuli (i.e. happy human faces), and their performance on executive functioning measures.

Georgia State University
Department of Psychology

Co-Investigator

IRB protocol #16394 (submitted) entitled: “TMS study of Anhedonia in Major Depressive Disorder.”

Research foci, techniques used, analysis of:

- human functional magnetic resonance imaging data (fMRI) collected from clinically depressed participants; with analysis of fMRI data in conjunction with participant’s responsivity to emotionally positive visual stimuli (i.e. happy human faces) before, and following, repeat transcranial magnetic stimulation (rTMS). Co-investigation led by Dr. Stephan Taylor at the University of Michigan. Data have already been collected.

University of Michigan
Neuropsychology Section, Department of Psychiatry

Post-Doctoral Resident

Research foci, techniques used, analysis of:

- human functional magnetic resonance imaging data (fMRI) collected from clinically depressed participants; with analysis of fMRI data in conjunction with participant’s responsivity to emotionally positive visual stimuli before, and following, repeat transcranial magnetic stimulation (rTMS). Mentored by Dr. Stephan Taylor.
- human fMRI data collected from healthy older adults and healthy younger adults during visuospatial processing, with emphasis on relating brain activity to neurocognitive functioning. Mentored by Dr. Linas Bieliauskas.
- human positron emission tomography (PET) data collected from clinically depressed adult participants, with analysis of opioid and dopamine neurotransmitter systems in relation to anhedonia and executive functioning pre- to post-treatment with an SSRI medication. Mentored by Dr. Jon-Kar Zubieta.

University of Wisconsin-Madison
Waisman Laboratory for Brain Imaging and Behavior, Laboratory for Affective Neuroscience, Center for Investigating Healthy Minds

Research Assistant

Techniques used, statistical analysis of:

- human functional magnetic resonance imaging data (fMRI) collected from participants in response to emotionally positive and negative visual stimuli, and analysis of corresponding behavioral data.
- electromyography (EMG) data obtained during the elicitation of empathy, and analysis of corresponding behavioral data.
- electroencephalographic (EEG) data obtained during the elicitation of positive emotional states in children, and analysis of parent-report data and observational behavioral data collected during the elicitation of empathy.
- video recorded behavioral data of children and adolescents who participated in the New York High Risk Project initiated in 1971. Our aim was to detect and quantify various emotions displayed during interviews conducted with the child/adolescent. The theoretical aim of this project was to determine whether emotional behavior during the interview predicted participants' subsequent diagnosis of schizophrenia or mood disorder, versus no diagnosis.

Research Foci:

- Comparison of the functional brain activity evoked during the presentation of emotionally positive images between healthy controls versus depressed adults (before and during the course of pharmacotherapy), with an emphasis on elucidating the prefrontal correlates of the symptom of anhedonia.
- Investigation of frontal cortex (via EEG) activity evoked during the evocation of positive affect in children aged 6-10 years as it relates to (1) different forms of positive affect (e.g. contentment versus joy) and (2) empathy.
- Development and validation of a self-report measure of "positive empathy" (i.e. the ability to experience vicarious emotion in response to the positive affect of others + an other-oriented feeling of goodwill).
- Development of a psychophysiological/behavioral paradigm for use with adults to parse two components of empathy: (1) vicarious emotion and (2) feelings of goodwill (i.e. a feeling/desire to do good to others); with the aim to relate these two components to positive affect.

Publications

- **Light, S.N.**, Moran, Z.D. & Davidson, R.J. (2016). The measurement of positive forms of empathy and their relation to hedonic capacity & other depressive symptomatology. Manuscript in preparation.
- Drag, L.L., **Light, S.N.**, Langenecker, S.A., Hazlett, K.E., Wilde, E.A., Welsh, R., Steinberg, B.A. & Bieliauskas, L.A. (2015). Patterns of frontoparietal activation as a marker for unsuccessful visuospatial processing in healthy aging. *Brain Imaging and Behavior*, DOI 10.1007/s11682-015-9428-y.
- **Light, S.N.**, Moran, Z.D., Swander, L., Le, V., Cage, B., Burghy, C., Westbrooke, C., Greishar, L. & Davidson, R.J. (2015). Electromyographically assessed empathic concern and empathic happiness predict increased prosocial behavior in adults. *Biological Psychology*, 104, 116-129.
- **Light, S.N.** & Bieliauskas, L.A. (2014). Frontal activation as a marker for unsuccessful visuospatial processing in healthy aging [Abstract]. *The Clinical Neuropsychologist*, 28, 409.
- Heller, A.S., Johnstone, T., **Light, S.N.**, Peterson, M., Kolden, G., Kalin, N., & Davidson, R.J. (2012). Relationships Between Changes in Sustained Fronto-Striatal Connectivity and Positive Affect in Major Depression Resulting From Antidepressant Treatment. *American Journal of Psychiatry*, doi: 10.1176/appi.ajp.2012.12010014
- **Light, S.N.** & Zahn-Waxler, C. (2011). Nature and forms of empathy in the first years of life. In J.

Decety (Ed.), *Empathy: from bench to bedside*. Cambridge, MA: MIT Press.

- **Light, S.N.**, Heller, A.S., Johnstone, T., Kolden, G.G., Peterson, M.J., Kalin, N. & Davidson, R.J. (2011). Reduced ventrolateral prefrontal cortex activity while inhibiting positive affect is associated with improvement in hedonic capacity after 8 weeks of antidepressant treatment in Major Depressive Disorder. *Biological Psychiatry*, 70, 962-968.
- **Light, S.N.** (2011). Invited cover art design for *Biological Psychiatry*, volume 70.
- **Light, S.N.**, Coan, J.A., Zahn-Waxler, C., Frye, C., Goldsmith, H.H. & Davidson, R.J. (2009). Empathy is associated with dynamic change in prefrontal brain electrical activity during positive emotion in children. *Child Development*, 80, 1210-1231.
- **Light, S.N.**, Coan, J.A., Frye, C., Goldsmith, H.H. & Davidson, R.J. (2009). Dynamic variation in pleasure in children predicts non-linear change in lateral frontal brain electrical activity. *Developmental Psychology*, 45, 525-533.
- Heller A. S., Johnstone, T., Shackman, A. S., **Light, S.N.**, Peterson, M., Kolden, G., Kalin, N., & Davidson, R. J. (2009). Reduced capacity to sustain positive emotion in major depression reflects diminished maintenance of fronto-striatal brain activation. *Proceedings of the National Academy of Sciences*, 106, 22445–22450.
- **Light, S.N.**, Johnstone, T., Kalin, N.H., Urry, H.L., van Reekum, C.M. & Davidson, R.J. (2006). Reduced activity in ventromedial prefrontal cortex during the regulation of positive affect is a neural marker of anhedonia [Abstract]. *Psychophysiology*, 43(Suppl 1), S59.

Memberships

- *International Neuropsychological Society (INS)*
- *Edward Bouchet Graduate Honor Society*
- *American Psychological Association (APA)*
- *American Academy of Clinical Neuropsychology (AACN)*

Invited/Ad Hoc Journal Consulting

- *Motivation and Emotion*
- *Aging, Neuropsychology and Cognition*
- *Measurement*
- *Psychiatry and Clinical Neurosciences*
- *Archives of General Psychiatry (JAMA Psychiatry)*

Awards

- *American Academy of Clinical Neuropsychology (AACN) Diversity Scholarship (2014)*
- *Edward Bouchet Graduate Honor Society Inductee (2013)*
- *National Graduate Student Research Conference, National Institutes of Health, Bethesda, MD October 8-10 (2012)*

- Named a “*Schwartz Fellow*” (Marian Schwartz established the Marian S. Schwartz Fund in the Psychology Department at the University of Wisconsin-Madison to support exceptional graduate student research in cognitive and experimental psychology) **(2012)**
- *James L. Davis Fellowship for Affective Neuroscience* **(2011)**
- *Workshop on Biology of Social Cognition Scholarship*, Cold Spring Harbor Laboratory **(2010)**
- *Ford Foundation Dissertation Fellowship Honorable Mention* **(2010)**
- *Tursky Award for Excellence in Predoctoral Research in Psychophysiology* (Society for Psychophysiological Research) for poster presentation entitled: “*Reduced activity in ventromedial prefrontal cortex during the regulation of positive affect is a neural marker of anhedonia.*” **(2006)**
- *Alliance for Graduate Education and the Professoriate Consortium Grant for Diversity Summer Research Award*, National Science Foundation (NSF) **(summer of 2007, 2008, 2009, 2010)**
- *Emotion Research Training Grant Fellowship*, National Institute of Mental Health (NIMH) **(2004-2007)**
- *Millennium Fellow*, Society for Research in Child Development (SRCD) **(2003)**
- *Gates Millennium Scholar*, Bill Gates Foundation **(2000-2003)**