

James Dalton Rounds
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RESEARCH EXPERIENCE (selection)

- Graduate Student* Aug., 2018 – present
 Human Development Ph.D. program, Developmental Psychology degree track
 Cornell University, Ithaca, NY
 Advisor: Prof. Vivian Zayas
- Research Technician (part time)* Aug., 2019 – present
 Cornell Magnetic Resonance Imaging Facility,
 Dept. of Human Development, Cornell University, Ithaca, NY
 Director: Prof. Sumit Niogi; Supervisor: Peter Farley
- Helping to set up, configure, and train others on using simultaneous EEG-fMRI-eye-tracking equipment
- Graduate Research Assistant (part time)* Dec., 2019 – present
 Communication and Collaborative Technologies Laboratory
 Dept. of Communication, Cornell University, Ithaca, NY
 PI: Prof. Susan Fussell, PhD
- Setting up and configuring a Biometric Lab, including Biopac EEG and psychophysiology measures, and a Tobii eye-tracker.
- Laboratory Manager* June, 2011 – June, 2018
 Human Electroencephalography and Psychophysiology (HEP) Laboratory
 Dept. of Human Development, Cornell University, Ithaca, NY
 Academic Director: Prof. Valerie Reyna
- Designing and implementing multimodal psychophysiology experiments, featuring EEG, Eye-tracking, Skin conductance, ECG, Pulse plethysmography, facial EMG, Respiration).
 - Collecting and analyzing data using: MATLAB, Python, PsychoPy, Acqknowledge, ActiView, EyeLink CL, Emotiv Control Panel, Q, R, SPSS, and related MATLAB toolboxes: EEGLAB, Ledalab, ERPLAB, BCILAB, BCI2000, LabStreamingLayer.
 - Conducting EEG analyses, e.g. pre-processing steps, temporal- and spectral-based artifact rejection methods, generation and measurement of ERPs, evaluation and classification of ICA results, assessing connectivity, group level time-frequency analyses, machine-learning-based classification of EEG feature-space.
 - Preparing, and assisting with preparation of, manuscripts for publication in peer-reviewed journals.
 - Assisting with fMRI data analysis using SPM8 and related toolboxes [Covariate batch analysis, PPI, Slover, rfxplot, WFU-Pickatlas], and fMRI data acquisition in the Cornell MRI Facility (including additional training on an EGI simultaneous EEG-fMRI system).
- Technician* Sept., 2011 – July, 2013

Computational Physiology Laboratory
 Dept. of Neurobiology and Behavior, Cornell University, Ithaca, NY
 Laboratory Directors: Prof. Thom Cleland, Prof. Christiane Linster

- Collected behavioral, histological, and in-vivo electrophysiological data from mice and rats, in order to study and model the mechanisms of olfactory processing.
- Served as Laboratory Safety Officer.

RELEVANT TRAINING EXPERIENCES

Trainee June, 2015 – Aug., 2016; Aug., 2018-Dec., 2018
 Cornell Magnetic Resonance Imaging Facility, Cornell University, Ithaca, NY

- Received over 50 hours of operator training from the facility's primary MR technologist
- Trained to proficiency on how to operate a GE Discovery MR750 3.0T scanner, including multiple scanning sequences, such as T1-, T2-, and PD-weighted scans, as well as structural scans and multi-echo sequences.
- Received over 10 hours of operator training on the facility's simultaneous EEG-fMRI system from the manufacturer.
- Co-led the team charged with streamlining the simultaneous EEG-fMRI system (Fall 2018).

Attendee May 27-29, 2015
 Statistical Analysis of Neural Data (SAND7) Workshop
 University of Pittsburgh, Pittsburgh, PA

Attendee Nov 14-18, 2013
 17th EEGLAB Workshop
 Schwartz Center for Computational Neuroscience, University of San Diego, San Diego, CA

Attendee Sep 17-18, 2012
 ERPLAB Mini-Bootcamp
 Workshop prior to 52nd Annual Meeting of Society for Psychophysiology Research, New Orleans, LA

UNDERGRADUATE SCHOLASTIC EXPERIENCE AND AWARDS

- Graduation Date and Degree: May, 2006, B.S. in Science (Life Sciences option), Pennsylvania State University.
- Minor in Neuroscience, with intensive, graduate-level curriculum in Molecular Biology and Psychology.
- Schreyer Honors Scholar – August, 2001 to January, 2005.
- Dean's List – Spring, 2002; Fall, 2002; Spring, 2006.
- Finalist, Most Distinguished Psychology Student Award – Fall, 2005.

PUBLICATIONS

Papers

Chick, C.F., Rounds, J.D., Hill, A.B., & Anderson, A.K. (2020). My Body, Your Emotions: Viscerosomatic modulation of facial expression discrimination. *Biological Psychology*, *149*, 107779.

Rieger, G., Cash, B.M., Merrill, S.M., Jones-Rounds, J.D., Dharmavaram, S. M., & Savin-Williams, R.C. (2015). Sexual arousal: The correspondence of eyes and genitals. *Biological Psychology*, 104, 56-64.

Presented Posters, Symposia, and Published Conference Abstracts (*-as a poster presenter)

* Rounds, J.D., Dittgen, S.K., Ni, M., Leung, N., Unsworth, L., Lee, R.T., & Zayas, V. (2020, Feb. 28). Implicit ambivalence towards significant others: Neurophysiological evidence. Poster presented at the Society for Personality and Social Psychology Annual Meeting, New Orleans, LA.

Garavito, D.M.N., Rounds, J.D., Reyna, V.F., Zhao, I., Nudelman, N.T., Chen, M. (2019, Nov. 16). “You’re not you when you’re hungry”: The effects of drive states on the correlation between alpha and theta frontal asymmetry and impulsivity in adults and adolescents. Poster presented at the Society for Judgment and Decision-Making Annual Meeting, Montréal, Que., CA.

Li, X., Ljubojevic, V., Jones-Rounds, J.D., & De Rosa, E.D. (2017, Nov. 12). Cholinergic implications in a cross-species investigation of cortical network dynamics in feature binding. Poster presented at the Society for Neuroscience Annual Meeting, Washington, D.C.

Chick, C.F., Jones-Rounds, J.D., Hill, A.B., Sokale, A.O., Markello, R.D., & Anderson, A.K. (2017, May 26). Interoceptive accuracy predicts discrimination of ambiguous facial expressions. Symposium presented at: 29th American Psychological Society Annual Convention, Boston, MA.

Chick, C.F., Reyna, V.F., Weldon, R.B., Corbin, J.C., Jones-Rounds, J.D., Setton, R.A., & Blansky, D. (2014, Nov. 26). Neural mechanisms of risky choice framing effects vary with numeracy and metacognition: A Fuzzy-Trace Theory analysis. Poster presented at: Society for Neuroeconomics Annual Meeting, Miami, FL.

*Athilingam, J., Jones-Rounds, J.D., Post, D.L., Ganzel, B.L., & Belmonte, M.K. (2014, Sep. 12). Temporo-parietal source localization and functional connections of the N250 emotion-related potential evoked by social and non-social stimuli. Poster presented at: 4th Biennial Resting State and Brain Connectivity Conference, Cambridge, MA.

- Poster abstracts published (He et al., 2013)

*Jones-Rounds, J.D., & Raizada, R. (2013 Sep. 6). Putting a low-cost, mobile EEG system through its paces with a walking auditory oddball task. Poster presented at The International Conference on Basic and Clinical Multimodal Imaging (BaCI), Geneva, Switzerland.

- Poster abstracts published:

He, B. J., Nolte, G., Nagata, K., Takano, D., Yamazaki, T., Fujimaki, Y., Maeda, T., Satoh, Y., Heckers, S., George, M. S., Lopes da Silva, F., de Munck, J. C., Van Houdt, P. J., Verdaasdonk, R. M., Ossenblok, P., Mullinger, K., Bowtell, R., Bagshaw, A. P., Keeser, D., Karch, S., ... Horn, H. (2013). Abstracts of Presentations at the International Conference on Basic and Clinical Multimodal Imaging (BaCI), a Joint Conference of the International Society for Neuroimaging in Psychiatry (ISNIP), the International Society for Functional Source Imaging (ISFSI), the International Society for Bioelectromagnetism (ISBEM), the International Society for Brain Electromagnetic Topography (ISBET), and the EEG and Clinical Neuroscience Society (ECNS), in Geneva, Switzerland, September 5-8, 2013. *Clinical EEG and Neuroscience*, 44, E1-E121.
<https://doi.org/10.1177/1550059413507209>

*Rounds, J.D., Jones, B.C., Chessler, E.J., Beard, J.L., Fletcher, S., & Klebig, M.L. (2006, Nov. 12). Hypomorphic mutations of the clathrin-assembly gene *Picalm* confer brain iron deficiency and behavioral abnormalities consistent with dopaminergic system defects. Poster presented at the 20th International Mammalian Genome Conference, Charleston, SC.

Included in Acknowledgement Section of Published Research Articles

Devore, S., de Almeida, L., & Linster, C. (2014). Distinct roles of bulbar muscarinic and nicotinic receptors in olfactory discrimination learning. *J Neurosci*, *34*, 11244–11260.

Clark, R.T., Famoso, A.N., Zhao, K., Shaff, J.E., Craft, E.J., Bustamante, C.D., McCouch, S.R., Aneshansley, D.J., & Kochian, L.V. (2013). High-throughput two-dimensional root system phenotyping platform facilitates genetic analysis of root growth and development. *Plant, Cell and Environment*, *36*, 454–466.

Rieger, G., & Savin-Williams, R.C. (2012). The eyes have it: Sex and sexual orientation differences in pupil dilation patterns. *PLoS One*, *7*, e40256.

OUTREACH

Mentor/Coach Nov., 2015 – present

FIRST Lego League Jr.

- Coach a group of 6-8 elementary school students through an annual 8-week, team-building, LEGO-robotics challenge related to a topic in sustainability, ethics, and STEM.
- Weekly meetings culminated in a county-wide expo with scores of other teams, Judges, and students giving a verbal poster presentation.

Presenter and Workshop Leader Aug., 2015-Aug., 2018

Ithaca Youth Bureau and 4H College Discovery and Career Explorations Programs, Ithaca, NY

- Lead interactive workshops and presentations for groups of 15-30 low-income middle-school and high-school students at a time.
- Total number of workshops ~ 10
- Present on topics such as how to get into STEM careers, how to overcome obstacles
- Lead hands-on activities with neuroscience and psychology equipment and experiment methods

Co-Investigator Nov., 2017- Nov., 2018

Ithaca Public Education Initiative (IPEI) “Connecting Classrooms” Grant

- Successful co-applicant with several local and national groups for a \$10,000 “Connecting Classrooms” grant, offered by the Ithaca Public Education Initiative, a non-profit supporting the local school district.
- Project scope: Design, implement, and study a novel modification to the recess period at two local elementary schools, based on “play-work” research.

President July, 2017 – June, 2019

Fall Creek Elementary School Parent Teacher Association (PTA)

- Support all programming at the school, in and outside the classroom.
- Manage a ~\$25,000 budget, including all fundraising and expenditures.
- Organize committees and oversee the PTA Board of Directors.

Mentor/Coach Jan., 2017 – March, 2017

Science Olympiad

- Coached a group of 8 elementary school students through an 8-week, team-building, STEAM (Science, Technology, Engineering, Art, and Math) -oriented club.
- Weekly meeting culminated in a Final competition against neighboring school teams in several STEAM-related events, similar in format to the Olympics.

Mentor/Coach

April, 2014 – June, 2014

Destination Imagination

- Coached a group of 8 elementary school students in a team-building, problem-solving, STEAM (Science, Technology, Engineering, Art, and Math) -oriented club.
- Led 10 meetings, culminating in a STEAM-based performance in front of the school, adhering to the Destination Imagination national curriculum.

Speaker/Presenter

May, 2009 – May, 2017

Hugh O'Brian Youth (HOBY) Leadership Seminars, Central Pennsylvania chapter
Millersville and Shippensburg, PA

- Helped run (and recruit participants for) annual 4-day immersive leadership workshops for 10th-graders
- Lead groups of 8-30 high school sophomores in leadership activities related to civic, political, and business careers
- Regularly addressed the full group of ~250 sophomores, discussing issues related to STEM research, nutrition, and health

Co-Principal Investigator

August, 2006 - Aug. 2007

Office of Workforce Development Grant, Pennsylvania State University, University Park, PA

- Awarded \$12,500 grant, to create podcasts designed to teach biomedical organizations (hospitals, research institutes) in Pennsylvania how to save money and conserve resources by becoming more sustainable.
- Hired and supervised an undergraduate assistant, to help me with researching and producing the content
- The podcasts gained state-wide and nation-wide recognition, with ~ 100 views monthly.

Other Honors*Grammy nomination,*

February, 2011

The Recording Academy

- Co-writer and performer, “The Fresh Fruit and Vegetable Snack Program Song”
- *Healthy Food for Thought: Good Enough to Eat* (©2010, East Coast Recording Company), a children’s spoken word compilation album
- 100% of proceeds benefit the New York Coalition for Healthy School Food, a state-wide non-profit
- Nominated for Grammy in category “Children’s Spoken Word Album”