

# TAYLOR SALO



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## PROFILE

Methodologically-oriented cognitive neuroscientist interested in neuroinformatics. Strong technical skills in neuroimaging data processing, analysis, and meta-analysis. Passionate about transparency and reproducibility.

## EDUCATION

**Florida International University**, Doctor of Philosophy, Psychology **2015 – PRESENT**

- Cognitive neuroscience program
- Advisor: Dr. Angela Laird

**Cornell University**, Bachelor of Arts, Psychology **2009 – 2013**

- Concentration in behavioral and evolutionary neuroscience
- Advisor: Dr. Timothy DeVoogd

## EXPERIENCE

**Graduate Assistant, Neuroinformatics and Brain Connectivity Laboratory** **2015 – PRESENT**

*Dr. Angela Laird, Florida International University*

- Currently assisting in the development of a tool for annotation of the neuroimaging literature using natural language processing and machine learning.
- Currently engaged in a project quantitatively comparing the Neurosynth and BrainMap frameworks.
- Providing assistance in the development and implementation of neuroimaging data analysis pipelines for several projects within the lab.

**Junior Specialist, Translational Cognitive and Affective Neuroscience Laboratory** **2013 – 2015**

*Dr. Cameron Carter, University of California, Davis*

- Acquired neuroimaging and behavioral data from healthy controls and patients with psychosis for projects studying the effects of psychosis on cognitive control, emotion regulation, and brain structure.
- Contributed to and maintained a custom codebase for the analysis of neuroimaging and behavioral data.
- Processed and analyzed neuroimaging and behavioral data for several lab projects.
- Administered behavioral tests and cognitive tasks, including the WASI and WRAT, to both control and clinical populations.
- Trained incoming personnel to administer behavioral and cognitive tasks.

**Lab Co-Manager/Research Assistant, Laboratory for Lifespan Affective Neuroscience** **2011 – 2013**

*Dr. Barbara Ganzel, Cornell University*

- Contributed to projects investigating functional and structural changes associated with subclinical trauma.
- Trained undergraduate students to preprocess and perform data diagnostics on fMRI data.

**Undergraduate Research Assistant, Bird Song Behavior Laboratory** **2012 – 2013**

*Dr. Timothy DeVoogd, Cornell University*

- Prepared solutions for, and assisted in, intracranial perfusion, dissection, and staining of bird brains.
- Examined avian song-related neural regions microscopically.

## PUBLICATIONS

- Brewe, E., Bartley, J. E., Riedel, M. C., Sawtelle, V., **Salo, T.**, Boeving, E. R., Bravo, E. I., Odean, R., Nazareth, A., Bottenhorn, K. L., Laird, R. W., Sutherland, M. T., Pruden, S. M., & Laird, A. R. (2018). Toward a Neurobiological Basis for Understanding Learning in University Modeling Instruction Physics Courses. *Frontiers in ICT*, 5, 10. doi:[10.3389/fict.2018.00010](https://doi.org/10.3389/fict.2018.00010)
- Ray, K. L., Lesh, T. A., Howell, A. M., **Salo, T.**, Ragland, J. D., MacDonald, A. W., Gold, J. M., Silverstein, S. M., Barch, D. M., & Carter, C. S. (2017). Functional network changes and cognitive control in schizophrenia. *NeuroImage: Clinical*, 15, 161-170. doi:[10.1016/j.nicl.2017.05.001](https://doi.org/10.1016/j.nicl.2017.05.001)
- Lopez-Garcia, P., Lesh, T. A., **Salo, T.**, Barch, D. M., MacDonald, A. W., Gold, J., Ragland, J. D., Strauss, M., Silverstein, S., & Carter, C. S. (2016). The neural circuitry supporting goal maintenance during cognitive control: a comparison of AX-CPT and dot probe expectancy paradigms. *Cognitive, Affective, & Behavioral Neuroscience*, 16(1), 164. doi:[10.3758/s13415-015-0384-1](https://doi.org/10.3758/s13415-015-0384-1)
- Phillips, R. C., **Salo, T.**, & Carter, C. S. (2015). Distinct neural correlates for attention lapses in patients with schizophrenia and healthy participants. *Frontiers in human neuroscience*, 9. doi:[10.3389/fnhum.2015.00502](https://doi.org/10.3389/fnhum.2015.00502)

## PRESENTATIONS

- Salo, T.**, Riedel, M. C., Bartley, J. E., Bottenhorn, K. L., Yarkoni, T., Turner, M. D., Turner, J. A., Sutherland, M. T., & Laird, A. R. (2017). A quantitative evaluation of Neurosynth's annotation methods. Presented at the 23<sup>rd</sup> annual meeting of the Organization for Human Brain Mapping; Vancouver, British Columbia. More information [here](#).
- Salo, T.**, Riedel, M. C., Bartley, J. E., Bottenhorn, K. L., Yarkoni, T., Turner, M. D., Turner, J. A., Sutherland, M. T., & Laird, A. R. (2017). A quantitative evaluation of Neurosynth's annotation methods. Presented at Florida International University's 2017 Graduate Student Scholarly Forum; Miami, Florida.
- Salo, T.** & Renfro, A. (2017). Open science tools: GitHub, BIDS, & preregistration. Presented at Brainhack Global 2017; Miami, Florida. More information [here](#).
- Bartley, J. E., Riedel, M. C., **Salo, T.**, Boeving, E. R., Odean, R., Bravo, E., Laird, R. W., Pruden, S., Brewe, E., Sutherland, M. E., Laird, A. R. (2017). Understanding the neural substrates of physics problem solving: Brain mechanisms and behavior correlates. Presented at Brainhack Global 2017; Miami, Florida.
- Bartley, J. E., Riedel, M. C., **Salo, T.**, Boeving, E. R., Odean, R., Bravo, E., Laird, R. W., Pruden, S., Brewe, E., Sutherland, M. E., Laird, A. R. (2017). Understanding the neural substrates of physics problem solving: Brain mechanisms and behavior correlates. Presented at Florida International University's 2017 Graduate Student Scholarly Forum; Miami, Florida.
- Bartley, J. E., Riedel, M. C., **Salo, T.**, Boeving, E. R., Odean, R., Bravo, E., Laird, R. W., Pruden, S., Brewe, E., Sutherland, M. E., Laird, A. R. (2017). Understanding the neural substrates of physics problem solving: Brain mechanisms and behavior correlates. Presented at the 2017 Florida Statewide Graduate Student Research Symposium; Tampa, FL.

## POSTERS

- Salo, T.**, Riedel, M. C., Bartley, J. E., Bottenhorn, K. L., Yarkoni, T., Turner, M. D., Turner, J. A., Sutherland, M. T., & Laird, A. R. (2017). A quantitative evaluation of Neurosynth's annotation methods. Presented at the 23<sup>rd</sup> annual meeting of the Organization for Human Brain Mapping; Vancouver, British Columbia. More information [here](#).

- Bartley, J. E., Riedel, M. C., **Salo, T.**, Boevig, E. R., Odean, R., Bravo, E., Laird, R. W., Pruden, S., Brewe, E., Sutherland, M. E., Laird, A. R. (2017). Understanding the neural substrates of physics problem solving: Brain mechanisms and behavior correlates. Presented at the 23<sup>rd</sup> annual meeting of the Organization for Human Brain Mapping; Vancouver, British Columbia. More information [here](#).
- Poudel, R., Riedel, M. C., Hill L. D, Flannery, J. F., **Salo, T.**, Laird A.R., Sutherland M.T. (2017). Behavioral decoding of functionally related brain areas consistently linked to drug cue reactivity. Presented at Florida International University's 2017 Graduate Student Scholarly Forum; Miami, Florida. More information [here](#).
- Riedel, M. C., Poudel, R., **Salo, T.**, Eickhoff S. B., Fox, P. T., Laird, A. R., & Sutherland, M. T. (2016). Co-activation based parcellation of the human insula. Presented at the 22<sup>nd</sup> annual meeting of the Organization for Human Brain Mapping; Geneva, Switzerland. More information [here](#).
- Lesh, T. A., Maddock, R. J., **Salo, T.**, Tanase, C., Ragland, J. D., Niendam, T. A., Solomon, M., & Carter, C. S. (2015). Diffusion Measures of Free Water and 1H-MRS Measures of Glutathione in First Episode Patients with Schizophrenia – A Multi-Modal Investigation of an Inflammatory Model for Psychosis. Presented at the 15<sup>th</sup> biennial meeting of the International Congress on Schizophrenia Research (Colorado Springs, CO) and at the annual meeting of the American College of Neuropsychopharmacology (Phoenix, AZ).
- Phillips, R. C., **Salo, T.**, & Carter, C. S. (2014). Default mode network activity precedes attention lapse in healthy subjects. Presented at the 44<sup>th</sup> annual meeting of the Society for Neuroscience (Washington, DC) and at the second annual Northern California Consciousness meeting (Davis, CA).

## HONORS AND AWARDS

Organization for Human Brain Mapping Hackathon Travel Award	<b>2017</b>
Organization for Human Brain Mapping Merit Abstract Travel Award	<b>2017</b>

## HACKATHONS

Code Rodeo	<b>2018</b>
OHBM Hackathon	<b>2017</b>
Neurohackweek	<b>2016</b>

LAST COMPILED: 2018/05/24