

Josef Affourtit

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Education

Ohio State University

B.S. PHYSICS

Department of Physics

Columbus, OH

2019

Publications

Diachek, E.*, Siegelman, M.*, Blank, I.*, **Affourtit, J.** & Fedorenko, E. (2020). The domain-general multiple demand (MD) network does not support core aspects of language comprehension: a large-scale fMRI investigation. *Journal of Neuroscience*.

Manuscripts

Chen, X.*, **Affourtit, J.***, Malik Moraleda, S., Kean, H., Jouravlev, O., Regev, T., Norman-Haignere, S., McDermott, J., & Fedorenko, E. (in prep.) The fronto-temporal language system does not support the processing of music.

Affourtit, J., Rakocevic, L., Tuckute, G., Mineroff, Z., Small, H., Kean, H., Jouravlev, O., Ayyash, D., Pritchett, B., Siegelman, M., Pongos, A., Hoeflin, C., & Fedorenko, E. (in prep.) 800LanA: A probabilistic atlas of the human language network based on 800+ individuals.

Affourtit, J., Small, H., Mineroff, Z. & Fedorenko, E. (in prep.) In defense of individual-level functional neural markers.

Affourtit, J., Rakocevic, L., Small, H., Mineroff, Z. & Fedorenko, E. (in prep.) Sex differences in the topography of the language network.

Mollica, F., Shain, C., **Affourtit, J.**, Kean, H., Siegelman, M. & Fedorenko, E. (in prep.) Another look at the constituent structure of sentences in the human brain.

Regev, T., **Affourtit, J.**, Chen, X., Bergen, L., Mahowald, K., & Fedorenko, E. (in prep.) Sensitivity of high-level language processing brain regions to phonological information.

Shain, C.*, Paunov, A.*, Chen, X., **Affourtit, J.** & Fedorenko, E. (in prep.) Language regions do not support Theory of Mind.

Schoessow, F.S., Workman, G., Vega, M.E., Harlow, C., **Affourtit, J.**, & Zhan, M. Autonomous aerial remote sensing platforms for monitoring of snow and ice at high altitudes. (In prep)

Affourtit, J., & Scott, N. Optimal Adversarial Pathway Estimation Using Remotely Sensed Spectral-Terrain Data: A Graphical Modeling Approach.

Research & Training Courses

Massachusetts Institute of Technology

PROFESSIONAL CERTIFICATE PROGRAM IN MACHINE LEARNING & ARTIFICIAL INTELLIGENCE

Departments: CSAIL, IDSS, & LIDS

Cambridge, MA

2019 - 2020

Research Experience

Massachusetts Institute of Technology

RESEARCH ASSOCIATE

• Advisor: Evelina Fedorenko

Cambridge, MA

May 2019 - Present

Ohio State University

UNDERGRADUATE RESEARCH ASSISTANT

• Advisor: Bryan Mark

Columbus, OH

Sep 2018 - May 2019

Riverside Research

MACHINE LEARNING RESEARCHER

• Advisor: Nicholas Scott

Dayton, OH

May 2018 - Aug 2018

Industry Experience

Ohio Supercomputer Center

STUDENT INTERN

- Assisting researchers with super computing tasks

Columbus, OH

Sep 2017 - May 2018

Crane Consumables

MACHINIST

- Repairing/maintaining/operating mechanical and electrical machines used in production

Monroe, OH

May 2012 - Aug 2017

Medpace, Inc.

ENGINEERING INTERN

- Creating and optimizing database using SQL for recruitment purposes

Cincinnati, OH

Aug 2016 - Dec 2016

Honors & Awards

2019 **Sharpe Innovation Commons Seed Grant Award**, Ohio State University

Columbus, OH

2015 **Continuing Education Scholarship**, Crane Consumables

Monroe, OH

Skills

Programming languages Python, MATLAB, #C, BASH, C++, Node.js, HTML, CSS