Josef Affourtit

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Education

Ohio State University   *Columbus, OH*
B.S. Physics   *2015 - 2019*
Department of Physics

Research & Training Courses

Massachusetts Institute of Technology   *Cambridge, MA*
Professional Certificate Program in Machine Learning & Artificial Intelligence   *2019 - 2020*
Departments: CSAIL, IDSS, & LIDS

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.

Working Papers

Affourtit, J. & Fedorenko, E. (2020). A probabilistic functional atlas of the human language network based on 800+ individuals. (In prep)

Chen, X.*, **Affourtit, J.*** & Fedorenko, E. (2020). Music is not processed by the language-processing mechanisms. (In prep)

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. (In prep)

Research & Technical Experience

Massachusetts Institute of Technology   *Cambridge, MA*
Research Associate   *May 2019 - Present*
- Implementing ML techniques on MRI data using the McGovern Institute's cloud computing platform
- Creating data visualization pipeline using python and MATLAB for lab use
- Created and currently maintaining evlab.mit.edu

Ohio State University   *Columbus, OH*
Research Assistant   *Sep 2018 - May 2019*
- Creating and testing new technology related to autonomous aerial vehicles in small startup evironment

Riverside Research   *Dayton, OH*
Machine Learning Researcher   *May 2018 - Aug 2018*
- Researching, evaluating, and implementing various ML techniques on HSI data.

Ohio Supercomputer Center   *Columbus, OH*
Student Intern   *Sep 2017 - May 2018*
- Assisting researchers with super computing tasks.

Medpace, Inc.   *Cincinnati, OH*
Engineering Intern   *Aug 2016 - Dec 2016*
- Creating and optimizing database using SQL for recruitment purposes

Skills

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