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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/Working Papers

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.

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

Mollica, F., Shain, C., **Affourtit, J.**, Kean, HH., Siegelman, M., & Fedorenko, E. Another Look at the Constituent Structure of Sentences in the Human Brain. (In prep)

Chen, X.*, **Affourtit, J.*** & Fedorenko, E. 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 May 2019 - Present

RESEARCH ASSOCIATE

- 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 implementating 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.
ENGINEERING INTERN

Cincinnati, OH 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

June 21, 2020 Josef Affourtit · CV