



Dustin Luchmee (M.S. Data Science)

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Technical Skills

- Python
 - R
 - SQL
 - Weka
 - Scikit-Learn
 - TensorFlow
 - PyTorch
 - Applied Machine Learning
 - Natural Language Processing
 - Data Visualization
 - Research Methods
 - Statistics
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Education

Drexel University | Philadelphia, PA

9/2019 - 12/2021

Master's of Science - Data Science

Professional Experience

Medusa Intelligence Corporation | Philadelphia, PA

10/2022 - 12/2022

Machine Learning Data Scientist

- Developed and deployed code for machine learning projects using Python.
- Contributed open source machine learning projects to be used for training and consulting purposes.
- Collaborated with other machine learning specialists globally on code development and execution.
- Consulted with Machine Learning Lead regarding needs for machine learning project content.
- Researched new approaches and latest developments in the field of applied machine learning.
- Supported and educated other open source machine learning contributors.

Moss Rehabilitation Research Institute | Elkins Park, PA

4/2016 - 3/2019

Research Assistant, Neuroplasticity and Motor Behavior Laboratory

- Collaborated in protocol design and implementation of diverse research studies; managed and structured timelines for participant recruitment, data collection, and data analysis.
- Utilized advanced knowledge of Excel and SPSS to conduct preliminary analysis and describe data findings; aided with review article and protocol design via comprehensive literature searches.
- Coached and mentored junior laboratory members in data collection, data analysis, procedures, best practices, and proper use of technology.
- Oriented new team members to the institute and laboratory; answered questions and promoted continual improvement.
- Cooperated with scientists, patients, and fundraising teams to deliver compelling donor presentations; designed and distributed posters for conferences, as well as figures for posters and papers.
- Communicated proactively to provide constructive feedback and support with implementation of new patient registry.

University of Pennsylvania | Philadelphia, PA

5/2014-11/2015

Research Intern, Center for Cognitive Neuroscience

- Managed the recruitment of participants for studies and the scheduling and conduction of neuroimaging sessions.
 - Conducted and assisted senior lab members with neurostimulation sessions and behavioral testing.
 - Shared and explained preliminary findings of studies with laboratory staff.
 - Managed diverse research studies utilizing behavioral, neurophysiological, and medical imaging techniques.
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Research Publications

- Johnson, T., Ridgeway, G., Luchmee, D., Jacob, J., & Kantak, S. (2022). [Bimanual coordination during reach-to-grasp actions is sensitive to task goal with distinctions between left-and right-hemispheric stroke](#). *Experimental Brain Research*, 1-15.
- Kantak, S., & Luchmee, D. (2020). [Contralesional motor cortex is causally engaged during more dexterous actions of the paretic hand after stroke- a preliminary report](#). *Neuroscience Letters*, 134751.
- Kantak, S., McGrath, R., Zahedi, N. & Luchmee, D. (2017). [Behavioral and neurophysiological mechanisms underlying motor skill learning in patients with post - stroke hemiparesis](#). *Clinical Neurophysiology*, 129(1), 1 - 12.