**Matthew Yough Ph.D.**

Pittsburgh, PA

724-496-4870

mgyough@gmail.com

https://github.com/mattyough25

https://www.linkedin.com/in/matthew-yough/

# **Summary**

* Highly motivated researcher, data scientist, and software developer with 6 years of experience in the medical technology field leading to 3 publications and 6 software and hardware deliverables to support new assistive technologies.
* Expertise leading projects to build solutions for ingesting large amounts of data and modifying data ingestion scripts to analyze and visualize data as evidenced by the development of 3 large scale relational databases and data pipelines.
* Strong communication skills with an ability to manage dedicated projects relevant to the development of medical technologies and analysis of medical data, as evidenced by the presentation of 3 technological breakthroughs in the assistive device field.

# **Work Experience**

**Market Research and Software Development Expertise in C/C++, Python, SQL, and MATLAB**

Gained as a Development Engineer at Neurowired, LLC, Research Assistant in the Neuro-Engineering and Rehabilitation Lab at West Virginia University in Morgantown, WV & as a Biomedical Engineer at Shriners Hospital for Children in Erie, PA

* Subject matter expert and internal thought leader with high-level technical, statistical, machine learning, and database skills with software development expertise in C/C++, Python, SQL, and MATLAB as evidenced by the innovation of 3 software packages for running new assistive technologies and 3 software packages for creating end-to-end data pipelines.
* Astute interpersonal skills to interface with a scientific team and assist in the handoff of technical information relating to a project, as evidenced by a cross-functional collaboration with 3 different labs and authoring a SBIR grant.
* Excellent time management skills to simultaneously design, code and test efficient programs to automate research and development processes to meet deadlines, as evidenced by the innovation of 7 high-throughput experimental procedures in the neuro-engineering field and 3 end-to-end data pipelines for organized data storage and recall.

Matthew Yough, PhD

**R&D and Project Management Expertise in Neuro-Engineering and Data Science Research**

Gained as a Research Assistant in the Neuro-Engineering and Rehabilitation Lab at West Virginia University in Morgantown, WV, and Development Engineer at Neurowired, LLC

* Extremely detail-oriented with technical proficiency to complete reports with high level of detail and investigate, evaluate and propose solutions in the motor control rehabilitation field resulting in $58,000 in grant funding on stroke research.
* Dedicated leader who contributes to cross-departmental teams and can lead team members in the practical application of hardware and software development in an R&D setting, as evidenced by 100% success rate of mentored students in industry, lab, and clinical settings.
* Dedicated project manager who led 4 research and development projects while also drafting internal and external technical documentation related to the development of new rehabilitation technologies to achieve a PhD in Neuro-Engineering and Rehabilitation.

# **Education**

Ph.D. in Pathophysiology, Rehabilitation, and Performance with a focus on Neuro-Engineering and Rehabilitation Technology.

# **Techniques, Technical Skills & Documentation**

MATLAB

Research

Python

Deep Learning

R

Communication Skills

C/C++

Emotional Intelligence

Web Design

Creative Problem Solving

Time Management

Information Management

Leadership

Microsoft Office

Presentation Skills

TensorFlow 2 Collaboration Skills Technical Writing Project Management People Management

SQL

# Aﬃliations & Hobbies

* Scholars of Excellence in Engineering and Computer Science
* Biomedical Engineering Society
* Member – Phi Eta Sigma, Academic Honor Society
* Scholar Athlete, NCAA Division 2 Baseball
* Avid sports fan and an aspiring above average golfer.