

From: Ian Taylor itaylo19@students.kennesaw.edu
Subject: Request for Master's Thesis Advisory
Date: August 4, 2025 at 10:28 AM
To: Zongxing Xie zxie1@kennesaw.edu



Good morning Dr. Xie,

I hope this email finds you well. My name is Ian, and I am currently a master's student in computer science at Kennesaw State University. I am reaching out because your expertise in high-performance computing and scientific machine learning aligns closely with the direction of my thesis project.

My thesis is currently in the planning stages and broadly focuses on implementing hierarchical predictive processing frameworks for EEG analysis. Specifically, I am interested in exploring how the brain integrates fast local dynamics and slower contextual information to inform perception and prediction. This research would involve developing computational models that utilize hierarchical integration of multi-timescale dynamics, with the goal of improving EEG-based classification tasks.

Having reviewed your research on high-performance computing, machine learning algorithms, and system-level performance optimization, I believe your insights into parallel and heterogeneous computing could be incredibly beneficial in shaping the computational aspects of my thesis.

If you have the time and interest, I would greatly appreciate the opportunity to discuss my preliminary ideas with you in more detail, either by email or in person at your convenience.

Thank you very much for considering this request—I look forward to the possibility of working together.

Best,

Ian Taylor
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