Dear Dr. Tan,

I am writing to apply for the Undergraduate Computational Research Assistant position at Stowers Lab at Scripps Research Institute. I am a dynamic data scientist in working with collecting, analyzing, classifying/modelling, and visualizing data. I aspire to solve problems by setting up experiments and models to further analyze the data. I believe that my strong technical skills, relevant education background, and the passion for data analysis make me a highly competitive candidate for this position. Some of my key strengths include:

- Senior student in **Department of Data Science** at UC San Diego,
- Proficient in Python including utilizing libraries such as Pandas, Numpy, Scikit-Learn, etc
- Building machine learning/deep learning models to evaluate various kinds of data sources,
- Analyzing, visualizing, and reporting observations through given data,
- Experience with computational statistics and statistical inference,
- Self-motivated and able to meet deadlines,
- Creative in problem-solving, as well as being able to work as a team member and independently at the same time,
- Very fast learner, and is very passionate about research.

At Stowers Lab, I would utilize my experience in building data pipelines to help contribute to current research. From previous academic work, I've worked heavily with classical machine learning algorithms and statistical inference on data. I also have extensive experience with deep learning models, such as Convolutional Neural Networks and Long-Short-Term-Memory models for image recognition and caption generation.

From my previous work experience in Applied Materials, I worked in the finance department where large amounts of real world numerical, raw unstructured text data was collected. The environment is very fast paced, and I had to think very quickly and independently for all of my projects. I applied data cleaning techniques to extract valuable information from those data, and fixed potentially missing/corrupted data from it. I also collaborated with every member in my department, which includes designing and tailoring small projects to automate their daily tasks. In conjunction with my creativity and being a good collaborator, I can offer the research position my strong technical and interpersonal skills.

In closing, I'd like to reiterate my enthusiasm for the Undergraduate Computational Research Assistant position at Stowers Lab. I hope to utilize my knowledge at Stowers Lab and I am confident that my skills will allow the lab to grow further. I am excited to contribute my experiences in data science and I look forward to the challenges that might come my way.

I would love the opportunity to discuss my data science experiences and skills with you and look forward to hearing from you. I can be reached at edh021@ucsd.edu.

Sincerely,
Edwin Huang
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