



January 22, 2020

Dear Awards Committee:

I am writing in support of a nomination of David Campbell for an undergraduate award. David has been working with me since the Spring 2020 semester on a data science research project. He has created a web app that produces visualizations of ham radio spots as recorded in the volunteer databases WSPRnet and Reverse Beacon Network. This semester we are working to develop a statistical framework by which these citizen-science data can be used to infer patterns in space weather. He plans to submit an abstract to the upcoming HamSci conference.

David has shown independence and consistency in his work, which has required data wrangling, coding in R, and thinking critically about the data sets. He has taken initiative to learn the necessary coding skills for this project and has provided creative ideas about the most appropriate ways to display the data. He has resolved difficulties with minimal instructions from me. I am impressed by his work and believe that its quality and his tenacity make him deserving of an award.

Sincerely,

A handwritten signature in black ink that reads "Deborah Kunkel". The signature is written in a cursive, flowing style.

Deborah Kunkel