

Fangcao has been active in Geographic Information Science (GIS) and Remote Sensing (RS) fields for more than 10 years in both academia and industry. Her current Ph.D. research focuses on developing deep learning algorithms to detect target from infrared hyperspectral images. It involves big data simulation, collection, processing, and analyzing using different deep neural network (CNN, LSTM, GCN, etc.).

Besides, she has a very strong background in dealing with different kinds of geographic data (e.g., POIs, IoTs, urban transportation network data, Geo-location text data and hyperspectral images). She is equipped with the necessary skills and proficient in several programming languages (R, Python, a little bit Java) in data mining, data visualization, and deep learning. I believe that her background and experience fit the requirements which can be summarized in two aspects: 1) deep domain knowledge and experience in GIS/RS data, and 2) deep learning and mathematic modeling.

I know her from Penn State, where I did my PhD, and I have been closely following her progress through her PhD and her enthusiasm to learn new topics and apply them in her research. Fangcao's strength is both practical and theoretical knowledge in the wide range of topics she is involved. Hence, I strongly recommend her to be considered for this position as its requirements are very related to Fangcao and I'm confident that she will thrive in your team.

Please find further information about Fangcao in her CV and her webpage at: <http://personal.psu.edu/fbx5002/>

Best regards,
Mem Tofighi