Dear Professor B.:

I am a junior student in Computational Mathematics at Beihang University in China, who is interested in numerical analysis and signal processing. I am seeking summer research about signal processing (especially compress sensing) and has a strong interest in your work.

I first knew the field ‘Compress Sensing’ in my project last summer, which aims at forecasting sales for products with little history data. I was fascinated by the technique again in my digital signal processing course later, when I was recovering an audio signal. And my research in machine learning, especially in few-shot learning and anomaly detection, also refers to compress sensing. Thus, I want to explore more in the direction and expect summer or remote research under your supervision.

I have read your recent papers on scholar and found your research on sparse sensing methods, especially approximate message passing (AMP), which is attracting to me. To be honest, I lack relevant background with only knowledge about numerical analysis, convex optimization and signal from courses. While I would like to pay enough efforts in the following research, my twelve month’s experience in two labs will qualify me a suitable researcher.

  Would you like to offer me an opportunity to conduct summer research at North Carolina State University? I have attached my CV in this mail. I would be self-funded and would appreciate it very much if I can get the chance! Thank you.

Regards,

Joe Zou

**Research Experience**:

*2018.04 - 2018.11*   Time series forecasting for products without history data, in the data science lab of my school, supervised by Professor Haihui Wang, with one paper to be submitted.

*2019.01 - present*  Few-shot learning and change-point detection, in the state key lab of school of computer science, supervised by Professor Xianglong Liu, mainly referring to Bayesian inference and meta learning.

Dear Professor B:

  Thanks for replying! I have attached my transcript in this mail showing my main courses in the past five semesters.

  I failed to perform well in the first two years due to my too much attention on volunteer projects, my media studio as well as research in labs, where I got many prizes as I present in CV. Besides, I have achieved high grades in most of my elective courses. I think these can show my motivation for interest.

  To prepare well for research, I will definitely devote much in the direction if you think I need to strengthen it. I would appreciate it very much if I can get the opportunity! Thank you.

Regards,

Joe Zou