

# Mohan Liu

628 Library Place, Evanston, IL, 60201  
(847)-644-9861, mohan@u.northwestern.edu

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Dear Sir or Madam,

I'm writing to apply for a Data Scientist full-time position. I am a PhD candidate in Materials Science and Engineering at Northwestern University. I believe my experiences in quantitative research which includes working with large complex data sets and machine learning modeling, propensity to learn new technology, make me an ideal candidate for a data scientist position.

As a Ph.D. in the data-driven field of materials science, I have extensively utilized statistical modeling and computational simulations on high performance supercomputers to investigate materials performances. To briefly summarize, my PhD research specifically focused on materials informatics including constructing large databases of materials properties and performing machine learning modelings for new materials design and discovery. My research experiences have offered me unique opportunities to develop my statistics knowledge, programming skills, and most importantly, the ability and passion to conduct end to end data analysis to solve problems independently.

With such passion of solving problems through insights garnered from data analysis, I have been actively participating Kaggle Data Competitions to deal with real-world problems using data science knowledge. To solve these practical problems, I have further developed my data analysis skills, including new machine learning models and cutting-edge deep learning tools. I found myself really enthusiastic about applying my analytical skills to interpret data into useful and actionable recommendations to solve problems. And the data scientist is a perfect setting for me to apply my skills to offer statistical-informed solutions to real-life problems.

I take great pride in my passion for analytical problem solving, data science skills, and communication capability, and I am eager to contribute to and grow from your company to further my data science career. I would love to hear back from you soon to discuss my candidacy for further details. Thank you for your time and consideration.

Sincerely,  
Mohan Liu