Dear Prof. Xing,

I am Yuhang Cai who received a Bachelor degree in Physics from Nanjing University, China this year, now working as a visiting student in Massachusetts Institute of Technology.

Inspired by college courses and research experience, I displayed interests towards novel materials and their applications for electronic and photonic devices. By browsing your webpage, I know your research topics include applications based on nanomaterials and structures which attract me a lot .

During my undergraduate research, I developed some engineering experience and skills, such as wet and dry transfer, synthesis of graphene, tmdcs, device fabrication, charaterization. I also learned about GaN during my research in MIT. I really hope to do experiments related to novel materials such as III-Nitrides and 2D materials as well as applications during my graduate research. To be honest, I don't fully understand some of your papers currently, but I have physics background and experimental research experience in many aspects. I can learn more about your group's research based on my knowledge in the next half year.

I am not quite sure if you decide to take any XXX students in XXX, and then I may plan accordingly. I have attached a document of my transcripts and curriculum vitae in this email, with my detailed research experiences, in case with you are interested to know my academic background. Hope you can have a look at my application.

Thanks for your attention and look forward to your reply!

Best Regards,

Yuhang Cai