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# COVER LETTER

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Dear Sir/Madam,

Thank you for taking time to review my application. As an innovative thinker, independent researcher, and team player/leader, I believe I am qualified for the position.

My name is Dingtian Zhang, a Ph.D. candidate at Georgia Tech UbiComp Group, advised by Dr. Gregory D. Abowd. Passionate at pushing the boundaries of computing, I am the first of Gregory's Ph.D. students to work on the idea of computational materials, an unconventional computing paradigm that transforms computing beyond its forms today. My thesis is focused on self-powered conformal light sensing surfaces that enable implicit activity detection and explicit interactions such as indoor traffic monitoring and multitouch input. Throughout my Ph.D. program, I have worked on multiple research projects with a focus on input sensing and wearable devices, such as OptoSense (IMWUT'20), UbiquiTouch (IMWUT'20), Serpentine (CHI'19), and Whoosh (ISWC'16). I have also interned at Facebook, Disney, and Technicolor.

I have a diverse skillset from sensing, prototyping, fabrication to machine learning, ranking, and recommendation. Being an independent researcher, I am adept at designing interactions enabled by new materials or technologies, developing sensing systems for mobile/wearable/ambient interfaces, analyzing and decoding signals with signal processing and machine learning techniques, conducting user evaluations, and demonstrating novel and compelling applications in health, mixed reality, and ambient intelligence. I am also very experienced at leading collaborative efforts that create unprecedented user experiences with technologies across disciplines.

Please feel free to reach out to me should you see a match between my experience, skillset, personality and the position.

Sincerely yours,

Dingtian Zhang