Dear Members of the Selection Committee for Postdoctoral Fellowships at the Fudan University Shanghai Center for Mathematical Sciences,

I am currently a PhD student in Mathematics at the University of Wisconsin-Madison, and expect to graduate in the coming spring. My Research Interests lie primarily in harmonic analysis, geometric measure theory, and probability theory, though I am also beginning to explore problems related to nonlinear wave equations. My thesis problem focuses on studying spectral multipliers on compact manifolds using methods of Fourier integral operators, which I am working on under the supervision of Professor Andreas Seeger.

At Fudan University, I am primarily interested in working with Professor Danqing He on problems related to multiplier operators in the linear and multilinear setting, though I also have research plans related to multipliers of sub-Laplacians, and would thus also be interested in collaborating with Professor Hong-Quan Li. More details about these projects can be found in my Research Statement.

Thank you for your consideration,

Jacob Denson