I obtained my doctoral degree from Tohoku University Japan this September. I am writing to express my interest in joining your esteemed research group as a postdoctoral researcher. Your work in **multi-agent motion planning and robot control with reinforcement learning** has caught my attention and aligns well with my own research interests and background.

My doctoral research, supervised by Prof. Mitsuhiro Hayashibe, has primarily focused on **robot motion planning in dynamic environments with machine learning**, especially deep reinforcement learning (DRL). I have also had the opportunity to present my findings at various conferences and have published several articles in peer-reviewed journals, especially one article recently accepted by **RA-L**. My **long-term goal** is to enable DRL-based motion planner to behave as well as or outperform traditional methods. I believe my skills and experience would be a valuable addition to your research team.

In particular, I am highly intrigued by your recent publications, **AMSwarm: an alternating minimization approach for safe motion planning of quadrotor swarms in cluttered environments**, and **Safe-control-gym: a unified benchmark suite for safe learning-based control and reinforcement learning in robotics**, which focus on multi-agent motion planning and DRL-based robot control. I am confident that my background in **robot motion planning with DRL** and **multi-agent motion planning** would allow me to contribute significantly to your ongoing projects in this area. Additionally, your current project, **self-driving cars**, is what I am working on in a tech company. Moreover, I believe that working under your mentorship would provide me with an excellent opportunity to further develop my research skills and expand my knowledge in motion planning.

If you are interested in my research, please refer to my personal website www.weizhu996.com for more details, which includes my **CV** and a comprehensive list of my publications, videos, codes, and awards. I would be happy to provide additional information or materials upon request.