

Abhilash Chandra Singh

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To
Head,
Civil Engineering,
University of Limerick, Ireland

June 28, 2023

I am writing to apply for the position of Assistant Professor (Lecturer) in Civil Engineering at University of Limerick (UL). I am currently a doctoral candidate at Imperial College London, and fully expect to fulfill my PhD degree requirements by September 2023. My education and research experiences span across Asia, Europe and the Americas, with the privilege of working on cross-cutting themes of econometrics, machine learning, transport planning, and statistics. I am grateful for the recognition I have received through various awards and scholarships, including the *Department Dixon Scholarship* (UK), *Wellcome Trust Scholarship* (UK), *Imperial College Global Fellowship* (UK), *Turing Research Award* (UK), *Graduate School Fellowship* (USA), *District Student Fellowship* (USA), and *Professional Development Award* (USA). These honors have served as a source of motivation to pursue excellence in research and teaching.

My doctoral dissertation, conducted in consultation with Dr. Aruna Sivakumar at Imperial College London, examines endogeneity and consideration-set issues in residential location choice models. My research developed econometric models to disentangle endogeneity between residential location and travel behavior, proposed unified machine learning and discrete choice models, and accessibility frameworks to promote equity in transport for all. I aim to collaborate with the Civil Engineering and Economics faculty in areas such as discrete choice methods, operations research, machine learning, causal inference, and Bayesian statistics. I aim to initiate further dialogue with the Business school in the areas of Marketing, and Public policy to bring together expertise in solving current problems. Finally, through this position I aim to grow as an independent researcher-educator and achieve tenure.

Graduate education has instilled in me a deep appreciation for scientific diversity and provided me opportunities to conduct interdisciplinary research with colleagues from esteemed institutions across the world. This extensive research network forms my academic foundation and I plan to leverage this network to solve pressing and real-world problems. Education goes hand-in-hand with research, and therefore as a teacher, I believe in empowering students to take ownership of their learning experience. While the courses and students have differed, the feedback for my teaching has remained consistently excellent. I aim to promote inclusivity in my teaching and research by using my international academic experience to help domestic and international students feel at home.

Joining the faculty at University of Limerick would not only allow me to fulfill my professional goals, but also bring me closer to my spouse based in Limerick. The opportunity to work alongside renowned faculty and motivated students at University of Limerick is one that deeply resonates with my academic and personal aspirations. In support of my application, please find the attached documents including curriculum vitae, research, teaching and EDI statements. If you require any additional materials or information, I am happy to provide it. Thank you very much for your consideration.

Kind regards,
Abhilash Chandra Singh