

Technical University Munich, Department of Civil, Geo and Environmental Engineering,
Research Group for Modeling Spatial Mobility

Doctoral Candidate in Pedestrian Demand Modeling

Position Summary: Funding for a doctoral candidate in Pedestrian Demand Modeling is available at The Technical University Munich (TUM). The student will be co-supervised by Profs. Kelly Clifton (Portland State University) and Rolf Moeckel (TUM) as a part of an exciting collaboration that is funded for the next three years to conduct research and development around improving the ability for integrated demand modeling to consider pedestrian behaviors. The ideal candidate has experience with travel demand modeling and/or pedestrian behavioral modeling and brings some knowledge of Java programming and GIS. The candidate will be based in Munich; however, there is potential to spend some portion of time at Portland State University as a part of Dr. Clifton's research group.

Primary Responsibility: The successful applicant will work in the research group Modeling Spatial Mobility in the Department of Civil, Geo and Environmental Engineering at TUM. The main task is to assist the team in incorporating pedestrian considerations into travel demand models and consider how the outputs may be useful in health impact models as well as developing dissertation research related to this topic. This work emphasizes pedestrian travel behavior, the built environment, and health assessments. Econometric estimation of model parameters will be an important part of the work. Experience (or interest) in: pedestrian behavior, travel behavior, integrated transportation-land use models and the transportation-health relationship is a plus. In addition to research, the successful applicant will also be involved in preparing scientific papers for publication and conferences and writing research proposals.

Minimum Qualifications: The student should have a MS in civil engineering, urban planning or related field. Some combination of the following skills is desired: basic knowledge of econometric estimation techniques, geographic information systems (GIS), Java (or the willingness to spend a significant effort to learn Java upon arrival at TUM), pedestrian travel behavior, and/or travel demand modeling. The ability to speak, read and write in English is also essential (German is not required, but willingness to learn basic German is expected for non-German speakers).

About us: Modeling Spatial Mobility is a relatively new research group at the TUM with the vision to further develop mathematical models that relate to mobility, including transportation, land-use and environmental impact models. This research is co-supervised by Dr. Kelly Clifton from Portland State University, an internationally recognized expert in pedestrian modeling and travel behavior research.

The successful applicant can begin as soon as possible. The candidate will receive a salary in accordance to the Public Sector Collective Agreement of Länder (TV-L). There is no tuition to pay. The wage classification will be carried out after presenting the personal requirements as pay grade TV-L E 13. This is a 75% position, initially funded for three years. TUM is an equal opportunity employer. Qualified women are particularly encouraged to apply. Applicants with disabilities are treated with preference given comparable qualification.

Application requirements and deadlines: Applicants should submit

- a letter of interest (max. 2 pages), outlining research interests and relevant experience
- a curriculum vitae, and
- the names and contact information of three references

Please send these documents in pdf format and to kclifton@pdx.edu and rolf.moeckel@tum.de. Review of applications will begin immediately and continue until position is filled.

Questions? Please contact Prof. Kelly Clifton (+1 503.725.2871 or kclifton@pdx.edu) or Prof. Rolf Moeckel (+49.89.289.22699 or rolf.moeckel@tum.de) for any further questions about this exciting position at TUM.