

Postdoc on Cities, Machine Learning and Network Science



Deadline: 15th August 2020 / Starting: 1st October 2020

The [Computational Urban Science & Policy \(CUSP\) lab](#) is searching for a Postdoctoral researcher to advance the understanding of urbanisation and its relationship with inequalities in access to opportunities and resources. This position is in partnership with the [TPM AI lab](#), and The Municipality of The Hague. It requires the use of urban data, complexity science and machine learning.

The position will offer the following to the selected candidate:

- You will be part of the CUSP lab with a diverse group of students and researchers working on advancing urban data science to address the challenges of urbanisation.
- You will be affiliated with the TPM AI Lab, a newly established AI lab of the faculty that serves a community of AI researchers in establishing internal and external collaborations.
- You will get an opportunity to interact with project partners at the TPM AI Lab (extensive network of academic and industrial partners) and the Municipality of The Hague (offering a policy and planning perspective on cities).
- Opportunities for developing your career through support for conferences, collaborations, training possibilities, and mentoring.

REQUIREMENTS

We are looking for applicants who associate with the following characteristics:

- A PhD in quantitative social science, computational science (network science, computer science, machine learning / AI, statistics), or a related field in Geography, Transportation or Urban Planning.
- Ability to work both independently and in teams and an interest in taking ownership of projects and seeing them to completion (including publications).
- An ambition to develop a career in academia by conducting high-quality research in reproducible ways at the intersection of cities, complex networks and data science.
- Persuasive writing, presenting and communication skills in English.
- Experience in working with large geo-referenced datasets.
- Experience in collecting, analysing and processing data in programmatic ways (e.g., using Python, R or any other functional programming language).
- A strong willingness to learn and apply new quantitative and qualitative techniques to data from multiple disciplines (an interest in transdisciplinary research)
- An affinity for networking, project acquisition and valorisation and an entrepreneurial mindset to ensure the impact and sustainability of your work.

ABOUT THE LAB

The [CUSP lab](#) focusses on understanding the fundamental processes that drive, shape and sustain cities. In our group, we leverage large-scale datasets borne of the digital age and networked societies to develop computational frameworks for advancing a transdisciplinary urban science.



Applications from Women and Minorities are strongly encouraged