Postdoctoral research fellow position in data science and complex networks

Vanderbilt University

A postdoctoral position is available in data science and complex networks with applications to disaster resilience. The initial appointment is for one year, with the possibility of renewal based on progress and funding.

The research focus is on statistical learning and network analysis applied to risk and resilience modeling of complex interconnected networks. The research fellow is expected to engage in interdisciplinary research focused on (i) the dynamic behavior of interdependent infrastructure and social networks during disasters, and (ii) climate change impact on infrastructure and adaptation strategies.

Required qualifications

Candidates from various disciplines such as data science, statistics, risk analysis, network science, civil engineering, industrial engineering, systems engineering, urban planning, or other related fields are invited to apply.
The following skills and qualifications are required:

- Experience in machine learning, data mining, network analysis, and spatial data analysis
- Proficiency in programming (Python, R)
- Understanding of mathematical foundations and modeling of dynamic complex networks
- Excellent oral and written communication

Application

In a single PDF document, please send the following documents to Dr. Hiba Baroud (hiba.baroud@vanderbilt.edu):

- Cover Letter
- One-page research statement
- CV
- Copies of two manuscripts
- Contact information of three references.

Applications submitted by **December 15, 2020** will receive full consideration. However, applications will continue to be reviewed until the position is filled.

Vanderbilt University is an equal opportunity, affirmative action employer. Women, minorities and people with disabilities are encouraged to apply.