

The **Center for Critical Computational Studies (C³S)** at Goethe University Frankfurt am Main invites applications for a position in **Computational Social Science, Climate Justice and Demography** (Prof. Dr. Tobias Rüttenauer) as a

Post-Doctoral Researcher (m/f/d)
(E 13 TV-G-U)

starting on 01.08.2026, subject to the approval of the relevant third-party funding, initially for a fixed term of three years. The salary grade is based on the job characteristics of the collective agreement applicable to Goethe University (TV-G-U).

The [LOEWE Professorship](#) integrates Computational Social Science, Climate Justice, and Demography to examine social disparities in climate risk exposure and vulnerability. The research program centers on three key components: (1) Innovative computational methods – including machine learning and spatial econometrics – to uncover intersectional vulnerabilities within climate risks (e.g., mapping heat islands in marginalized urban areas), (2) analysing how climate change affects demographic outcomes such as fertility patterns and migration decisions, and (3) projecting future socio-demographic shifts under local climate scenarios to inform resilience planning.

The “Center for Critical Computational Studies” (C³S) is an interdisciplinary scientific institution and, as such, a central research center of Goethe University (www.c3s-frankfurt.de). The mission of C³S is to establish and enhance the profile of “Critical Computational Studies” as an inter- and transdisciplinary research field with international visibility. In this context, C³S is active in teaching, research, and knowledge transfer. As an interdisciplinary scientific institution of Goethe University, the center provides opportunities to bring together researchers from all departments, academic cultures, disciplines, and thematic areas within the context of “Critical Computational Studies,” and to foster both national and international networking. C³S is committed to scientific excellence and to the guidelines for ensuring good scientific practice, as well as to promoting and supporting the early independence of researchers at the early stages of their careers.

Your tasks:

- conduct independent and collaborative research within the LOEWE-funded research programme Computational Social Science, Climate Justice and Demography
- writing a postdoctoral dissertation (or equivalent)
- linking of environmental data and fine-scale socio-demographic data
- development and application of advanced quantitative methods, including machine learning and spatial econometrics, to investigate the socio-demographic impacts of climate change
- contribute to the development of forecasting and scenario-based models of future socio-demographic dynamics under different climate change scenarios at the local and regional level
- actively publish research findings in high-quality, peer-reviewed international journals
- participate in research activities within the Chair of Quantitative Social Science and the interdisciplinary environment of C3S
- attend and present at international conferences, workshops, and project-related events
- contribute to open-science practices, including reproducible research workflows, open-source software development, and the creation of harmonised data products

We expect from you:

- a completed university degree and a completed PhD degree with excellent academic performance in social sciences, including sociology, demography, political science, data science, economics, or related fields
- strong interest in the social and demographic dimensions of climate change, environmental inequality, and climate justice
- excellent quantitative and computational skills, demonstrated through peer-reviewed publications
- experience with or strong interest in geo-referenced environmental and social data
- experience with or strong interest in demographic projections
- proficiency in statistical software, such as R, Python, or Stata
- high affinity for interdisciplinary research
- strong conceptual and analytical skills
- willingness to work collaboratively in an interdisciplinary and internationally oriented research environment

Desirable qualifications include publications in environmental sociology, social demography, or climate-related social science research, as well as experience with machine learning, spatial econometrics, or longitudinal data analysis. Additional assets are experience working with large, complex or unstructured datasets, demonstrated commitment to Open Science and reproducible research or open-source software development, and international research experience together with familiarity with international academic working environments.

The Johann Wolfgang Goethe University Frankfurt am Main is one of the largest universities in Germany with around 41,000 students and with about 5,800 employees. Founded in 1914 by Frankfurt citizens and since 2008 once again proud of its foundation status Goethe University possesses a high degree of autonomy, modernity and professional diversity. As a comprehensive university, the Goethe University offers a total of 16 departments on five campuses and 155 degree programs along with an outstanding research reputation. Furthermore, the Goethe University is part of the Group of Rhine-Main-Universities (RMU).

Goethe University, as a family-friendly employer, offers flexible working hours, its own collective agreement, and currently a free LandesTicket Hessen for public transportation. The workplace is currently located on the Westend Campus, one of the most modern and beautiful university campuses in Germany, in the heart of Frankfurt am Main, with a park-like setting and good public transport connections.

Goethe University is committed to equal opportunity, family friendliness, and diversity. To strengthen the diversity of perspectives and lived experiences within the university, applications from individuals with a migration background and from members of other groups that have so far been underrepresented are particularly welcome. Applicants with a severe disability, or those legally equivalent, will be given preferential consideration in cases of equal suitability. If women are underrepresented in a faculty or administrative unit, they will be given preferential consideration in cases of equal qualifications.

Please send your application in German or English by e-mail under the reference code “**LOE-PD**” to: application@c3s.uni-frankfurt.de by **23.06.2026**. Compile your application documents into a single PDF file not exceeding 10 MB; this PDF should include a cover letter, detailed CV (including list of publications), writing sample (publications), as well as contact information for two individuals who can provide a reference. For further questions about the position, please contact Tobias Rüttenauer (ruettenauer@c3s.uni-frankfurt.de). Please note that the application documents will not be returned. Costs incurred during the application process will not be reimbursed by Goethe University.