

PhD Position

Collective Adaptation

Complexity Science Hub Vienna

€ 34.500 gross/year*, part time (30h)

*according to the standard personnel costs and salaries of the Austrian Science Fund FWF



The [Complexity Science Hub Vienna](#) is a young research institution dedicated to a deeper quantitative and predictive understanding of complex systems for the betterment of society. We provide an exciting, creative, bureaucracy-free environment for open-minded visionaries who want to make a change and are brave enough to step out of mainstream science.

PhD POSITION in COLLECTIVE ADAPTATION

We seek an excellent, creative, and highly motivated scientist with a MSc or equivalent with a background in cognitive science, psychology, sociology, computer science, network science, statistical physics, applied mathematics, data science, computational social science or related fields. The candidate must have a strong interest in multidisciplinary research, a genuine curiosity about human collectives, and a critical, open-minded, and collaborative spirit. Specific goals of this position include computational modeling of the interplay between human cognition and social networks, using a variety of modeling frameworks including statistical physics, cultural evolution, reinforcement learning and/or others. The candidate will be working in the research team led by Mirta Galesic and Henrik Olsson.

YOUR PROFILE

You are proficient in the English language, both written and spoken. We expect you to have the proven ability to carry out research independently, with strong analytical, data analysis and modeling skills. Good knowledge and experience in computational modeling of cognitive processes and/or social networks, machine learning and NLP, and advanced statistical analysis is a plus. Experience in conducting surveys and experiments with human participants is a plus. Experience in programming languages such as Python, Matlab, or R is necessary.

WE OFFER

We are offering a 3-year PhD position (1+1+1) to work with Mirta Galesic and Henrik Olsson in the Collective Adaptation team at the Complexity Science Hub Vienna, Austria. The successful candidate will have the opportunity to work at a highly interdisciplinary interface and will benefit from opportunities for a dynamic, collaborative, and international research environment.

YOUR RESPONSIBILITIES

The successful candidate will play a leading role within this project, designing, managing, executing, and publishing research in collaboration with other researchers within this project and elsewhere. You will collaborate with cognitive and network scientists to develop and implement computational models of collective adaptation, in order to understand how groups and societies change their beliefs, cognitive strategies, and social networks in response to emerging challenges.

APPLICATION

Please send your application material to applications@csh.ac.at with the subject line "PhD Collective Adaptation". The application includes a curriculum vitae, a list of publications, a brief research statement (why you think you are an excellent candidate in this topic and what research you would like to do with us), and any additional material that helps us to understand that you are research-oriented, technically skilled, and creative. Please also include names and full contact addresses of at least two individuals who are willing to write a letter of recommendation for you if we request it. We will start evaluating applications immediately. The call remains open until the position is filled.

CSH is committed to the principle of equal employment opportunity for all applicants. All employment decisions are therefore based on job requirements, qualifications, merit, and organizational needs. We strongly encourage individuals from underrepresented groups to apply.

We process your personal data in accordance with the law (<https://www.csh.ac.at/data-protection/>).