The Center for Humans and Machines at the Max Planck Institute for Human Development (Director: Prof. Dr. Iyad Rahwan) is seeking applications for a Principal Research Scientist Position, Computational Social Science (W2; 40 hours/week)

Funding for the position is available for five years. The position is available from January 1, 2020 or later.

Job Description
The Center Humans & Machines conducts science to understand, anticipate and respond to major disruptions from Artificial Intelligence, the Web and social media to the way we work, learn, cooperate, and govern society. We seek a computational social scientist with a strong quantitative background to supervise a team and lead projects at the intersection of Crowdsourcing, Network Science (with special emphasis on Social Media), and AI-mediated Cooperation. The Principal Research Scientist will work jointly with the Director on a combination of high-risk crowdsourcing studies and large-scale observational examinations on existing AI-powered crowdsourcing systems or events. The scope of projects includes novel methods for Crowdsourcing such as ways to combine human-machine work and studies on new limits set by AI in Human Cooperation.

Requirements
We are searching a research scientist with a PhD in Computer Science, Media Arts and Sciences, Physics, Applied Mathematics, or related discipline, with strong quantitative methods training and at least ten years of experience conducting interdisciplinary Computational Social Science.

The successful applicant is required to have extensive experience designing and leading high-risk interdisciplinary crowdsourcing studies and large scale observational examinations on existing crowdsourcing or AI-powered crowdsourcing events or systems. Furthermore, experience leading mid-size interdisciplinary teams of computational social scientists, network scientists, and/or artificial intelligence experts, the capacity to recruit and coordinate audio-visual designers and artists to produce public engagement platforms, and a strong publication record in top-tier interdisciplinary scientific journals exploring crowdsourcing and AI-powered cooperation are required. Further requirements are:

- Proven ability to assemble and lead teams to participate in and win international, open, time-critical crowdsourcing competitions.
- Proven experience developing strategies able to set new limits in Human Cooperation as well as AI-Human cooperation.
Extensive experience developing novel incentive structures for Crowdsourcing as well as new methodologies to combine human-machine work.

Experience with network-based modeling, complex systems modeling, agent-based modeling, allometric scaling, and algorithmic game theory.

A proven ability to conduct public engagement via new media, such as interview series, Web documentaries, science-fiction films, art installations, or interactive digital platforms illustrating the team’s scientific work.

In addition, experience with network science modeling, agent-based modeling, and algorithmic game theory, extensive experience communicating scientific findings to society via both generalized as well specialized scientific press as well as experience writing academic reviews, essays, opinion, as well as popular science reviews of research at the intersection of Crowdsourcing, Network Science and Artificial Intelligence are requested.

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds.

Applications (including a cover letter describing your research interests and a curriculum vitae) should be sent as a single PDF file to Prof. Dr. Ulman Lindenberger (seklindenberger@mpib-berlin.mpg.de). Please submit applications, without a photo, by April 5, 2019, to ensure consideration.

Signed Dr. Brigitte Merz