The Fondazione Bruno Kessler (FBK) ([https://www.fbk.eu/en](https://www.fbk.eu/en)), in cooperation with the Department of Mathematics at the University of Trento, as well as the Max Planck Institute for the History of Science Berlin (MPIWG) ([https://www.mpiwg-berlin.mpg.de](https://www.mpiwg-berlin.mpg.de)) announce a grant for a fully funded PhD scholarship on Data Science with topic: "Network Models for Historical Research: A Multilayer Approach"

Mathematics are revolutionizing the study of history in an unprecedented way, creating new research opportunities and promoting the emergence of new perspectives. The candidate will develop novel mathematical models, mostly based on multilayer networks, to explain from a social and historical perspective how knowledge and ideas transform. The research endeavor will be at the juncture of mathematics, digital humanities, and history of science. The historical data derives from research efforts in the project “The Sphere. Knowledge System Evolution and the Shared Scientific Identity in Europe” ([https://sphaera.mpiwg-berlin.mpg.de](https://sphaera.mpiwg-berlin.mpg.de)).

The ideal candidate has a strong background in computer science, physics, mathematics or related areas and is strongly motivated to work in an interdisciplinary environment. The candidate is expected to enroll at the University of Trento and will perform his/her research activity at FBK, within the Complex Multilayer Networks (CoMuNe) Lab.

The candidate is also requested to stay in Berlin for a period of a few months at specific times (additional funding for mobility and for periods of research are granted by the MPIWG). Fluent English is an additional requirement. Further languages such as Italian and German are welcome but not required. Female candidates are strongly encouraged to apply.

**Dates**
The official call will be in June 2018. The candidate is expected to enroll at the University of Trento by Nov-Dec 2018.

**Contacts**
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&
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**Additional Information**
The Complex Multilayer Networks (CoMuNe) Lab is the Research Unit of Fondazione Bruno Kessler (FBK) for modeling and analysis of complex and interconnected systems. Multilayer modeling often provides more insights than more traditional approaches, because they allow to naturally integrate available structural/relational/dynamical information. We use Network and Data Science to study structure, dynamics and resilience of real-world natural and artificial systems, from the human brain to society, at the edge of statistical physics, applied math and computer science. For more information, please visit: [https://comunelab.fbk.eu/](https://comunelab.fbk.eu/)
FBK counts on over 350 researchers, 220 between thesis-writing students, doctorate and post-doctorate students and visiting professors, 8 international Research Centres, 7 laboratories, 11 between spin-offs and start-ups combined, an extensive network of local and international alliances and strategic partnerships with top-tier institutions worldwide. For more information, please visit: https://www.fbk.eu/en/

Founded in 1994, the Max Planck Institute for the History of Science (MPIWG) in Berlin is one of the more than 80 research institutes administered by the Max Planck Society. It is dedicated to the study of the history of science and aims to understand scientific thinking and practice as historical phenomena. Researchers pursue an historical epistemology in their studies of how new categories of thought, proof, and experience have emerged. For more information, please visit: https://www.mpiwg-berlin.mpg.de