

## 1 Data scientist position in the ERC project ENPMUC

The Institute of Asian Studies (Irasia) at [Aix-Marseille University](https://www.univ-marseille.fr/) invites applications for the following position: 1 Data Science position in the ERC project ENPMUC.

This is a [European Research Council](https://erc.europa.eu/) (ERC) [Advanced Grant](https://erc.europa.eu/advanced-grants/) project titled "ENPMUC - Elites, networks, and power in modern urban China (1830-1949)." headed by Prof. Christian Henriot. The funding period of the project is 1 September 2018 to 31 August 2023 (5 years).

The project ENPMUC proposes a step-change in the study of modern China reliant upon scalable data-rich history. It will deliver precise historical information at an unprecedented scale from heretofore untapped sources - as well as reshaping the analysis of existing sources - to create a new dimension in the study of the transformation of elites in modern China. It will deploy an array of cutting-edge digital methods — including data mining, sampling, and analysis within an integrated virtual research environment. The key issue that the project will address is breaking through existing limits of access to historical information that is embedded in complex sources and its transformation into refined, re-usable and sustainable data for contemporary and future study of modern China. This project borrows substantially from the concepts and methods, especially quantitative methods and network analysis from sociology and political science. For the analysis of textual corpora, it draws on the procedures and applications developed in linguistics and literary studies to explore large corpora of unstructured texts. Finally, it implements the most advanced tools and methods designed in computing, especially data mining and machine learning.

The ENPMUC project will be based at Aix-Marseille University on its Schuman campus (Aix-en-Provence) and will be implemented by an international interdisciplinary team. The project is also part of a large international network of researchers in Europe (Bristol, Lancaster, Leiden, Basel, Göttingen), China (Shanghai) and Taiwan (Academia Sinica).

Three research centers of [Aix-Marseille University](https://www.univ-marseille.fr/) are involved in the ENPMUC project:

[Institute of Asian Studies](#) (IrAsia)  
[Laboratoire Parole et Langage](#) (LPL)  
[Laboratoire d'Informatique et Systèmes](#) (LIS)

For further information about the principal investigator, visit [ankeqiang.org](https://ankeqiang.org).

### The position and what is offered

- The data scientist position is initially for 1 year with a possible extension of up to 5 years
- Starting date: preferably 1 September 2018
- Remuneration is based on post-M.S. grade (100% working time) of Aix-Marseille University
- Salary scale : approximately 32,000 Euros per year before taxes and social security (Net salary around 1,650 euros). The package includes full social benefits, complementary insurance (mutuelle), and extra pre-paid meal tickets (ticket restaurant).
- Joining an innovative research project funded by the prestigious ERC grant scheme
- Becoming a member of a large and fully interdisciplinary research team, including historians, linguists, computer and data scientists.

- Profiting from a vibrant internationally oriented research environment at Aix-Marseille University. Possibility to attend international conferences, workshops, summer schools and research visits of institutions based in the countries involved in the project
- No teaching obligations (but if desired, teaching opportunities can be offered in addition)

### **Your tasks**

The Data Scientist will become part of and contribute to a growing ecosystem that brings together faculty, postdoctoral researchers, doctoral students to form a strong network that assists researchers in advancing data-analytic methods and inquiry, expanding and building new software and analytics tools, and sharing best practices. We are looking for applicants who would be excited about participating in the ENPMUC project in a variety of ways:

- Join an exciting research in collaboration with an international interdisciplinary team.
- Serve as connector and driver of collaborative activities.
- Participate in active research collaboration(s) with researchers.
- Mentor or lead team members in their research area.
- previously considered or by incorporating analysis methodologies that are new to them.
- Make the project's own open-source research outputs more accessible to the greater data science community.
- Submit content regularly for the project website and blog research contributions, publications, milestones and accomplishments.

### **Qualifications and requirements**

- M.S. degree in computer science or digital humanities (provided you have strong CS skills). The degree should be obtained before the start of the project.
- Experiences in one or more of the following fields: machine learning, statistics, natural language processing, visualization, data mining
- Strong methodological skills in programming, python, web technologies, UX, large scale systems, graph and network processing, Linux
- Very good command of spoken and written English; French language skills are not required ; Chinese would definitely be an asset
- Ability to organize yourself efficiently and work collegially in an internationally oriented team

### **Employer : Aix-Marseille University**

Aix-Marseille University (AMU) offers training in all disciplines: Arts, Literature, Languages and Humanities; Law and Political Science; Economics and Management ; Health; Science and Technology. An intensive research site in collaboration with leading organizations, AMU is one of the French sites of excellence recognized by an international jury as part of Future Investments. The AMU Foundation helps develop research, training and employability of students, while creating a privileged link with the socio-economic world. Training, research, guidance, employability, interdisciplinarity and exploitation of knowledge are the pillars of this establishment, largest university in France and the Francophone world. For more information: <https://www.univ-amu.fr/en/university>

[Aix-Marseille University](https://www.univ-amu.fr/en/university) aims to increase the share of women in research and teaching and, therefore, explicitly encourages applications from women. As an international research institution, Aix-Marseille University particularly welcomes applications from abroad.

### The application must include:

- CV – including degrees and other completed courses, work experience and a list of degree projects/theses, language skills
- A letter (max. 1000 words, excl. references) describing your research interests, skills and motivation to apply for the position; describe any digital method(s) you have used
- A copy of relevant degree(s)
- Two work samples where you used digital methods (e.g. journal articles, thesis or book chapters)
- Two reference letters with contact details [**The letters of reference must be sent directly by the referees to Prof. Christian Henriot at [contact@numerica-sinica.eu](mailto:contact@numerica-sinica.eu).**]

Please send your application (a motivation letter, CV, copy of your PhD certificate/transcripts and two work samples where you used digital methods in one PDF document to [contact@numerica-sinica.eu](mailto:contact@numerica-sinica.eu). Use the subject heading “ENPMUC Data Scientist Position”.

Deadline: APPLICATIONS WILL BE RECEIVED UNTIL A SUITABLE CANDIDATE IS RECRUITED.

If you have any further enquiries about the position, please do not hesitate to contact Prof. Christian Henriot at [christian.r.henriot@gmail.com](mailto:christian.r.henriot@gmail.com)



This project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement No 788476).