



Daniel Jost
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Post-doc position in polymer modeling of chromosome organization

Our group is looking for a post-doctoral fellow to be funded for up to two years. The group mainly focuses on understanding the basis of epigenomic regulation and its functional roles using physical and mathematical modeling approaches. This entails understanding the coupling between epigenomic landscape and nuclear chromatin organization, and the role of epigenomics in lung cancer. Our innovative research is conducted in close interaction with top-leader experimental and clinical partners.

The post-doctoral fellow will develop an activity on the modeling of chromatin folding in eukaryotes. It will involve the development of polymer models of chromatin, of efficient schemes to infer model parameters, and of statistical analysis and modeling of chromosome capture and epigenomic experimental data. The project will be realized in close collaboration with Cédric Vaillant and Ralf Everaers (ENS Lyon) for the modeling part and with the group of Giacomo Cavalli (IGH, Montpellier) for the experimental part.

The candidate will integrate the laboratory TIMC-IMAG that gathers scientists and clinicians towards the use of computer science and computational biology for understanding and controlling normal and pathological processes in biology and healthcare. It is based in Grenoble, one of the biggest student and academic cities in France, and located nearby the French Alps.

We are seeking a creative and highly motivated candidate. Strong background in numerical simulations and polymer modeling is required. A previous interdisciplinary experience in connection with biological issues would be a plus.

To apply, please send your CV, a motivation letter, and the names of two references to:

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