

ZeClinics is hiring a System Biologist

ZeClinics is searching for an experienced Ph.D. to join the company and push forward the Data Science - System Biology area.

About the Research Project

Nowadays, the biggest challenge for the pharmaceutical industry is to improve the models used for drug discovery during the preclinical phase. The traditional models fail in predictivity when they are confronted with human biology. To tackle this point ZeClinics is using zebrafish and wants to integrate transcriptional and phenotypic data with published information to develop network models that improve the predictivity in the drug discovery pipelines.

Responsibilities

- Adapting and applying existing computational methods to omics datasets
- Developing novel computational methods for understanding and organizing unstructured datasets with emphasis on transcriptomics data
- Developing robust and generalizable inference network algorithms
- Writing well-crafted, maintainable, scalable, and performant code

Requirements

The ideal candidate holds a Ph.D. in Computational Biology, Computer Science, Physics, Math, Statistics, or related quantitative fields.

The ideal candidate has a proven track record in the development of computational methods for the analysis of biological data and expertise in areas such as machine learning, statistics, complex network data analysis, or high-performance computing.

This position is suited for a person who is curious in nature and excited by the prospect of learning, adapting, and applying modern machine learning and statistical techniques to solve the key challenges for emerging biological data modalities.

Additional skills

- Ability to work independently and to interact with several collaborators
- Working knowledge of existing machine learning and probabilistic programming infrastructures (e.g. Theano, TensorFlow, PyTorch)
- Scientific and numerical programming in Python or R
- Exceptional organizational skills with strict attention to detail
- Ability to manage multiple projects simultaneously under strict deadlines
- Fluent written and spoken English

What we offer:

- Competitive salary
- Flexible working hours and location
- A vibrant start-up environment (in escalation phase)
- The possibility to truly shape the future of the company
- A group of motivated and fun people

Application Procedure: All applications should include:

- A cover letter addressed to Dr. Javier Terriente and Dr. Sylvia Dyballa (javier.terriente@zeclinics.com, sylvia.dyballa@zeclinics.com)
- A full CV including contact details
- Two contacts for further references