



Opening for Data Scientist
October 2021

About PhAST. PhAST is a venture-backed AI healthcare startup developing computer vision technology for rapid pathogen identification and antibiotic resistance detection directly from patient samples. Our platform provides clinical decision support for doctors, workflow improvement for hospitals, and helps accelerate the drug development process for pharmaceutical companies. Founded in 2017 by an MIT PhD alumnus and an ETH Professor of Engineering, PhAST has built a strong founding team, built 6 prototypes of its diagnostic device, established research collaborations with world-class clinical collaborators at the Harvard Medical School, Brigham and Women's hospital, and Seoul National University Hospital, and is advised by an international team of clinicians, scientists, and business experts across the USA and Switzerland. Company headquarters are located in the biotech innovation hub of Boston (USA) and the data analysis team is based in Zurich. This opening is for a position in the data analysis team in Zurich.

Job Description. PhAST is seeking a talented and driven data scientist with machine learning expertise to join its data science team in working with video microscopy data from its proprietary diagnostic platform to detect and identify individual objects, and to classify samples rapidly and accurately according to multiple criteria.

Major tasks and responsibilities include:

- Working with large clinical microscopy datasets in an under-developed R&D field to develop machine learning models with direct application to patient diagnostics.
- Feature and model optimization balancing performance and computation costs.

This position will include collaborative work with the current PhAST data science team as well as independent projects. As a member of a small, dedicated team within PhAST, this position will have the opportunity to significantly influence the rapid growth of the company.

We seek candidates with the following qualifications:

- MA or PhD in computer science, data sciences, or other related discipline
- Familiar and up-to-date with machine learning concepts, particularly deep learning
- Hands-on experience with machine learning model development
- Strong computational abilities for data analysis (e.g., Python, C++, Julia, or similar).
- Strong understanding of multivariate statistics and statistical inference
- Motivation to work in a fast-paced startup environment, with frequent product-development oriented deadlines.
- Team spirit to work in collaboration with international data generation, software, and product development teams.
- Prior hands-on experience in computer vision or image-based machine learning is a plus.
- Prior experience tailoring neural network models for resource-constrained scenarios is a plus. e.g. model compression and quantization

Come do the best work of your life at PhAST and help tackle one of the most urgent societal problems of our time! The position is available immediately. Salary and equity compensation will be commensurate with experience. The candidate must be legally eligible to work in Switzerland. If interested, please email your resume and a cover letter to careers@phast.ai.