Doctoral Landscape Award (DLA) project

Dr Maria Papathanasiou

October 2027 start

Machine learning-accelerated simulated clinical trials

Join the Life Science and Process Systems Engineering Lab (www.papathanlab.com) to help make in silico clinical trials fast, reliable and decision-ready. You will develop machine learning and probabilistic methods to enable uncertainty quantification of pharmacokinetic models/Quantitative Systems Pharmacology models, making them efficient enough to run across entire virtual patient populations, building on our recent work with Roche (doi:10.48550/arXiv.2610.14719). You will work closely with industry on real drug development challenges, with outputs that feed directly into dosing and trial design decisions.