



# Bio-in-Silico Research Group

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Looking to apply and expand your knowledge in **data science and Machine Learning** in a **real-world scenario**? Ready to make a real impact on patients? We are offering a

## Master's Thesis

**Title: Derivation, Validation, and Potential Treatment of Clinical Phenotypes for Kidney Failure with Machine Learning**

Acute kidney failure is a life-threatening condition classically defined as a sustained decrease in kidney function. There is growing evidence that there are different phenotypes (clinical representations) of kidney failure, leading to substantially different patient treatment.

In this Master Thesis you will apply and assess classical clustering techniques, e.g. k-means, DBSCAN or Expectation–Maximization Clustering using Gaussian Mixture Models versus state-of-art techniques regarding the representation and identification of new phenotypes in kidney failure in large-scale medical databases.

**Contact us now with your CV & transcript!**

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