

## **Abstract**

I will do an open talk about our experiences with starting and sustaining courses in data science at the Department of Mathematics, Uppsala University since 2017. The talk will be focused on how to retrain oneself in the area and what resources are available to deliver such courses. I will touch on an advanced industry-certified 'big data' PhD-level course (sds-2.2), PhD-level 'big data' courses taught jointly with domain-experts to train UU students and researchers/developers from industry (360-in-525 series), as well as current experiments at 2nd year undergraduate engineering level to adapt an existing applied statistics courses in the data science direction using SageMath to deliver live lab-lectures while maintaining the prominence of the statistical tradition without compromising mathematical details via interactive animations of fundamental statistical laws in parametric and non-parametric decisions.

Some relevant course URLs:

<https://lamastex.github.io/scalable-data-science/sds/2/2/>