Geplantes Angebot für Vertiefungen Data Science / Planned specialisation programme Data Science

	WS 24/25	SoSe 25	WiSe 25/26	SoSe 26	WiSe 26/27	SoSe 27
Analysis	Partial Differential Equations 1	PDE II/2 Data Assimilation for Fluid Dynamics Machine Learning for Fluid Dynamics	Partial Differential Equations 1		Partial Differential Equations 1	
Numerik			Numerics for PDEs with Uncertain Data	Efficient Methods for Data Assimilation Scalable Linear Solvers for Data Science		
Optimierung	Optimization in Machine Learning Non linear Optimization	Discrete Optimization	Optimization in Machine Learning Non linear Optimization	Discrete Optimization First-order methods for optimization in data analytics	Optimization Methods in Data Science Non linear Optimization	Discrete Optimization Optimization in Machine Learning
Stochastik		Mathematical Statistics	Statistical Theory of Deep Learning		Mathematical Statistics	Statistical Theory of Deep Learning

in Optimierung und Stochastik ist keine Reihenfolge einzuhalten, beliebiger Einstieg / in Optimisation an Stochastics you can start any time
in Numerik muss erst Numerics for PDEs with Uncertain Data und im darauffolgenden Semester die anderen Vorlesungen gehört werden / for Numerical Analysis it is mandatory to start with Numerics for PDSEs with Uncertain Data
in Analysis muss erst PDE I gehört werden / in Analyis it is mandatory to start with PDE I