

Geplantes Angebot für Vertiefungen Data Science / Planned specialisation programme Data Science
 (Zwei der vier Richtungen müssen ausgewählt werden/Two out of the four specialisation must be chosen)

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

in Optimierung und Stochastik ist keine Reihenfolge einzuhalten, beliebiger Einstieg / in Optimization and 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 Analysis it is mandatory to start with PDE I