

Chair / Professor	Requirements		
Prof. Dr. Christian Bizer	<ul style="list-style-type: none"> • Data Mining <i>or</i> • LSDM <i>or</i> • Decision Support 	at least 1 specialization Course of the DWS Group	Programming skills in JAVA <i>and</i> if any Python <i>or</i> R
Prof. Dr. Heiko Paulheim	Data Mining	at least 1 specialization Course of the DWS Group	Programming skills in JAVA <i>or</i> Python
Prof. Dr. Goran Glavas	<ul style="list-style-type: none"> • Information Retrieval & Web Search <i>or</i> • Text Analytics <i>or</i> • Hot Topics in Machine Learning <i>or</i> • LSDM <i>or</i> • Decision Support 	Good programming skills in at least one high-level programming language (Java, Python, C++, C#)	
Prof. Dr. Heiner Stuckenschmidt	<ul style="list-style-type: none"> • Decision Support <i>or</i> • Data Mining <i>or</i> • Algorithmics 	Programming skills in JAVA	
<i>or:</i>	Process Management	Management of Enterprise Systems	Deutschsprachig
Prof. Dr. Rainer Gemulla	<ul style="list-style-type: none"> • Data Mining <i>or</i> • LSDM <i>or</i> • Decision Support 	at least 1 specialization Course of the DWS Group	Programming skills in JAVA <i>and</i> if any Python <i>or</i> R
Prof. Dr. Matthias Krause	<ul style="list-style-type: none"> • Algorithmics (CS 550) <i>or</i> • Kryptographie II ((CS 651) <i>or</i> • Courses in Algorithmics / Data Structures <i>or</i> Cryptography <i>or</i> Theoretical Computer Science <i>or</i> Complexity Theory at B.Sc. <i>or</i> M.Sc. level 	Good programming skills in JAVA <i>or</i> C/C++	
Prof. Dr. Simone Ponzetto	<ul style="list-style-type: none"> • LSDM <i>or</i> • Decision Support 	<ul style="list-style-type: none"> • Information Retrieval & Web Search <i>or</i> • Text Analytics <i>or</i> • Hot Topics in Machine Learning <i>or</i> • Data Mining and Matrices 	programming skills in at least one high-level programming language (e.g. Java, Python, C++, C#, R and Matlab)
Prof. Dr. Guido Moerkotte	<ul style="list-style-type: none"> • Seminar of Prof. Moerkotte <i>or</i> • Seminar of Prof. Krause <i>or</i> • Seminar of Prof. Gemulla 	Data Base Systems II	Programming skills
Prof. Dr. Colin Atkinson	Advanced Software Engineering	Ability to program in an OO language (e.g. Java, Python etc.)	
Prof. Dr. Frederik Armknecht	<ul style="list-style-type: none"> • Algorithmics <i>or</i> • Cryptography II <i>or</i> • Data Security (as of FSS2020) <i>or</i> • Cryptography I <i>or</i> • Selected Topics in IT-Security 	Good programming skills (e.g. in JAVA <i>or</i> C++)	
Prof. Dr. Armin Heinzl	• successful completion of a seminar of the Area IS		

Prof. Dr. Han van der Aa	<ul style="list-style-type: none"> • Process Mining & Analytics <i>or</i> • Advanced Process Mining 	Programming skills in JAVA <i>or</i> Python	
Prof. Dr. Roland Leißa	<p>At least one course/one seminar in the area of</p> <ul style="list-style-type: none"> • Algorithmics • Software Engineering • Programming Languages • Concurrent programming • Graphics • Image Processing • Security 	Good programming skills in JAVA or C/C++	