

# Apply to the PhD program in **OPERATIONS MANAGEMENT** at the University of Mannheim



<https://gess-application.uni-mannheim.de/portal/>

## Four renowned chairs

**Moritz Fleischmann**



*SCM, sustainable supply chains, circular economy, inventory management, e-grocery, supply chain analytics*

**Raik Stolletz**



*Predictive and prescriptive analytics, performance analysis of queuing networks, capacity optimization*

**Cornelia Schön**



*Service design, product design, operations/ marketing interface, revenue management, strategic pricing & tariff design*

**Christoph Bode**



*Procurement, risk and disruptions, innovation and entrepreneurship, sustainability, empirical research*

## Broad and flexible program

- Strong quantitative profile for academia or analytics in industry
- Close supervision by active OM/OR researchers
- Gain a solid methods toolkit for OM/SCM research from day one

For more information, please visit:

<https://www.uni-mannheim.de/gess/programs/cdsb/cdsb-programs/operations-management/>

# Focus: Prescriptive and predictive analytics

|  | Mandatory Core Courses   | Mandatory Thesis-related Courses  |
|--|--|---|
| 1 <sup>st</sup> semester                   | <ul style="list-style-type: none"> <li>■ OPM 801 Optimization and Heuristics</li> <li>■ OPM 803 Selected Topics in Nonlinear Optimization</li> <li>■ E 700 Mathematics for Economists</li> </ul>   | <ul style="list-style-type: none"> <li>■ OPM 805 Research Seminar Business</li> </ul>                                 |
| 2 <sup>nd</sup> semester                   | <ul style="list-style-type: none"> <li>■ OPM 802 Dynamic and Stochastic Models in Supply Chain Research</li> </ul>   | <ul style="list-style-type: none"> <li>■ OPM 999 Project Study Operations</li> <li>■ Dissertation Proposal</li> </ul> |
| 3 <sup>rd</sup> semester                   |  | <ul style="list-style-type: none"> <li>■ OPM 901 Research Seminar OM &amp; OR</li> <li>■ Academic Writing</li> </ul>  |
| Exemplary analytics-oriented Electives     |  |   |
| 3 <sup>rd</sup> – 8 <sup>th</sup> semester | <ul style="list-style-type: none"> <li>❑ CDSB courses offered/organized by OPM chairs:                             <ul style="list-style-type: none"> <li>■ OPM 806 Empirical Research in Operations Management</li> <li>■ OPM 918 Business Analytics: Models, Methods &amp; Managerial Insights</li> <li>■ OPM 920 Contemporary Topics in OR</li> </ul> </li> <li>❑ PhD courses and schools offered by other (international) institutions                             <ul style="list-style-type: none"> <li>■ for example: Design and Application of Metaheuristics, Data-driven operations management, School on Column Generation, Modeling Decision Problems under Uncertainty, Discrete Choice Analysis: Predicting Individual Behavior and Market Demand, Choice-Based Optimization, Advanced Topics in Mathematical Programming, Machine Learning,...</li> </ul> </li> <li>❑ PhD schools organized by OPM chairs, for example <a href="#">Stochmod EURO PhD School RL4OR: Reinforcement learning applied to operations research</a></li> <li>❑ CDSB courses from other tracks</li> </ul> |   |

OPM 910 Area Seminar

Work on doctoral thesis