



# Understand your data. Get research skills.

Enabling a data-driven business is a key success factor - but requires new skillsets. Do you need insights on Big Data, Machine Learning or Data Mining? We offer more than 30 compact 5-day intensive courses at GSERM St. Gallen.

GSERM Global School in Empirical Research Methods at the University of St.Gallen is a high-calibre programme teaching research methodology. We welcome professionals of all fields but also members of academia. You enhance your skills in block seminars taught by world-class faculty amongst an international crowd of participants, also providing you with a unique opportunity for exchanging experiences.

## General Information

<b>Date</b>	7-25 June 2021
<b>Course Structure</b>	5-day intensive courses (max. 1 course per week)
<b>Course Load</b>	4 ECTS per course / week
<b>Course Costs</b>	
1 course / week	CHF 2000
2 courses / weeks	CHF 3300
3 courses / weeks	CHF 4400
Early bird discount until 28 February 2021: CHF 100 (flat-rate)	
<b>Accommodation</b>	as from CHF 400 per week in shared apartments or in a hotel as per your choice
<b>Services</b>	Support in course selection Welcome package Course materials Transcript of the University of St. Gallen Sports / social programme Excursions at weekends

**Application deadline 30 April 2021**



## Contact

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# Course Information

## 1<sup>st</sup> Session: 7-11 June 2021

Instructor	Course	Level
Bennett, Andrew	Case Study Methods	B
Enders, Adam	Analyzing Survey Research Data	M
Hofstetter, Reto	Data Scraping and Management for Social Scientists with R	B
Kalish, Michael	Bayesian Data Analysis	M
Lantz, Brett	Machine Learning with R - Introduction	B
McDaniel, Timothy	Regression I - Introduction	B
Mitchell, Sara	Introduction to Time Series Analysis	M
Poe, John	Basic and Advanced Multilevel Modeling with R and Stan	M
Schulte-Mecklenbeck, Michael & Wulff, Dirk	Visualizing and Communicating Data with R	B
Smith, Shawna	Foundations of Machine Learning and Regression Methods for Categorical Outcomes	A
Sperlich, Stefan	Advanced Microeconometrics	A

## 2<sup>nd</sup> Session: 14-18 June 2021



Instructor	Course	Level
Fiss, Peer	Qualitative Comparative Analysis	M
Häubl, Gerald	Experimental Methods for Behavioral Science	M
Herrmann, Andreas & Baer, Douglas	Introduction to Structural Equation Models	M
Kwartler, Edward	Text Mining	M
Lantz, Brett	Machine Learning with R - Advanced	M
McDaniel, Timothy	Regression Analysis II - Linear Models	M
Meuli, Lorenz Christoph	Biostatistics	B
Montoya, Amanda & Hayes, Andrew F.	Mediation, Moderation, and Conditional Process Analysis I	M
Spindler, Martin	Econometrics of Big Data	A
Zhang, Kunpeng	Analyzing Unstructured Data	M
Zorn, Christopher	Analyzing Panel Data	A

## 3<sup>rd</sup> Session: 21-25 June 2021

Instructor	Course	Level
Baty, Florent	Randomized Clinical Trials: General Concepts and Statistical Aspects	M
Bonev, Petyo	Theoretical Aspects of Machine Learning	A
Fairfield, Tasha	Advanced Case Study Methods: Explicit Bayesian Process Tracing	A
Füss, Roland & Adams, Zeno	Regression Analysis for Spatial Data	A
Hayes, Michael T.	Mediation, Moderation, and Conditional Process Analysis II	A
Herrmann, Andreas & Baer, Douglas	Structural Equation Models II - Advanced Methods	A
Mihas, Paul	Qualitative Research Methods and Data Analysis	B
Montoya, Amanda & Hayes, Andrew F.	Mediation, Moderation, and Conditional Process Analysis II	A
Riedhammer, Korbinian & Borth, Damian	Deep Learning: Fundamentals and Applications	M
Zorn, Christopher	Regression for Publishing	A

## Additional Information

To support you in choosing a course corresponding to your current knowledge level, there are three different course levels: On a general note, all courses are on PhD level, but differ in their prerequisites in terms of statistical skills. In any case, please refer to the detailed course descriptions on [www.gserm.ch/stgallen/courses/](http://www.gserm.ch/stgallen/courses/) where you can double click on the course name for more information.

B = Basic Addressing participants with little or no statistical skills.  
 M = Intermediate Meant for participants with some knowledge in statistics.  
 A = Advanced Ideal for participants with fundamental skills in statistics.

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