

Unlock Your Potential



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info@ms-researchhub.com

WHO WE ARE

M&S Research Hub, based in Kassel, Germany, is a globally oriented research and academic institute. It offers online and onsite training in advanced econometrics, statistics, data analysis, and programming for individuals and organizations. Additionally, it provides CGE/DSGE modeling solutions, project development, surveys, and impact assessments for governments and organizations. The institute has delivered specialized training to high-profile clients, including the World Bank, UN, IMF, WTO, WRI, Eco-Engineers, and several central banks and government teams from Germany, UK, UAE, Saudi Arabia, Brazil, Scotland, Malaysia, and Mozambique, equipping them to effectively handle complex data analysis and modeling tasks.



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+49 0 15225886301



info@ms-researchhub.com



+49 0 17686387586



Landgraf-Karl Str.11, 34131
Kassel-Germany (EU Office)

1. General Equilibrium Modeling (GEM)

Jan 2025

Compact 78-hour live and online training covering the following main topic

Module 1: Intro. to CGE using GTAP

Module 2: Linear Programming, NLP and intro to GAMS

Module 3: CGE in GAMS

Module 4: Advanced CGE in GAMS & GTAP

Module 5: Intro. DSGE

Module 6: Advanced DSGE

**TARGET
PARTICIPANTS**

Public Officials

Researchers & Students



2. Computable General Equilibrium (CGE) using GTAP/GEMPACK

Jan-May-Sep 2025

Compact 18-hour live and online training covering the following main topics

- CGE Model introduction
- Production and Demand theories
- GTAP model and database introduction
- Modeling Nested Production functions in GEMPACK
- Elasticities: CES, Armington calibration
- SAM/I-O table construction

**TARGET
PARTICIPANTS**

Public Officials

Researchers & Students



**Private training for organization and government teams
on request**



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3. Computable General Equilibrium (CGE) using GAMS

Feb – Aug 2025

Compact 13-hour live and online training covering the following main topics

- Modeling a simple economy
- Arrow-Debreu, Cobb-Douglas, and other CGE-related functions
- Modeling the government and the rest of the world
- Introduction to Dynamic CGE models in GAMS

TARGET PARTICIPANTS

Public Officials

Researchers & Students



4. Linear Programming, NLP and intro. to GAMS

April–July 2025

Compact 13-hour live and online training covering the following main topics

- Introduction to Optimization and Unconstrained Optimization
- Linear Programming (LP), Integer Programming (IP), Nonlinear Programming (NLP)
- Sensitivity Analysis
- Introduction to GAMS

TARGET PARTICIPANTS

Public Officials

Researchers & Students



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5. Advanced Computable General Equilibrium (CGE) using GAMS/GTAP/R

March – Oct 2025

Compact 12-hour live and online training covering the following main topics

- Working with GTAP slack variables
- Introducing new conditions to GTAP through code modifications (in GEMPACK), Linking GTAP with econometrics (R)
- Setting up a dynamic GTAP
- Linking GTAP with a GAMS model (Global Timber Model)
- Linking GTAP with a PE model (poverty analysis)

TARGET PARTICIPANTS

**Public Officials
Researchers & Students**



6. Intro. Dynamic Stochastic General Equilibrium (DSGE) using Dynare

March–June–Oct 2025

Compact 18-hour live and online training covering the following main topics

- Introduction to DSGE Models and Dynare
- New Keynesian Models, Euler equation and New Philipps Curve
- Small Open Economy Models Extensions to New Keynesian Models and Habit formation
- Kalman Filter and Estimation Methods Bayesian Methods and Markov Chain Monto Carlo6

TARGET PARTICIPANTS

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7. Advanced DSGE Modeling

May – July–Nov 2025



Compact 15-hour live and online training covering the following main topics

- Kalman Filter and Estimation Methods
- Kalman Filter Algorithm
- Application in DSGE models– estimation unobserved states
- State–Space Formulation of DSGE Models
- Bayesian Estimation in DSGE Models
- Markov Chain Monte Carlo (MCMC) Methods, Posterior Sampling and Convergence Diagnostics
- Quantitative methods like Dynamic Factor Models (DFMs) and Time–Varying Parameter Vector Autoregressions (TVP–VAR)
- Extension to New Keynesian DSGE models explore habit formation in consumer behavior, microfoundations, and their effects on aggregate demand.

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8. Basic Econometrics Eviews and STATA

Feb– June–Sep 2025

Compact 9-hour live and online training covering the following main topics

- Classical linear regression assumptions
- Specification problems
- OLS Hypothesis Testing Single & and multivariate analysis Regression analysis WLS, GLS and FMGLS

**TARGET
PARTICIPANTS**

**Students, Educators and Public
officials**

**Junior Researchers &
Professionals**



9. Time series Econometrics Eviews and STATA

March–July–Oct 2025

Compact 27-hour live and online training covering the following main topics

- Stationarity and model selection criteria
- Dynamic time series models (e.g. VAR, XVAR, SVAR, VECM) ARDL, ARMA & ARIMA Volatility models: ARCH family
- In and out-sample Forecasting
- Introduction to Mixed Data Sampling (MIDAS) HAC Estimators

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Professionals**



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10. Panel Econometrics Eviews and STATA

April – Aug–Nov 2025

Compact 30-hour live and online training covering the following main topics

- Panel specification tests (Chow, wald, panel unit root, Hausman, etc.)
- Dynamic panel models: DPD, panel VAR & GMM, IV models
- Panel ARDL. Panel Data for Limited Dependent Variables
- DCC under GMM
- Dynamic Threshold and Intro to Global VAR

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PARTICIPANTS**

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officials**

**Junior Researchers &
Professionals**



11. Advanced Econometrics Eviews and STATA

May–Sep–Dec 2025

Compact 27-hour live and online training covering the following main topics

- Nonlinearity: testing & appropriate models
- Structural equation modeling
- Logit & Probit models
- Censored & Truncated models
- Endogeneity and instrumental variables model
- Treatment effect Models

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12. Prog-metrics: Common models using R and Python (Practical labs only)

Mar-May-July-Dec 2025

Compact 22-hour live and online training covering the following main topics

- Introduction to R and Python, Data in R Regression Analysis, Time Series Analysis Volatility models (ARIMA and GARCH systems) and Multivariate Endogenous Models (VAR Family), cross section and panel data regression
- Quantile Regression Parametrics and Nonparametrics Regressions: splines and kernel regressions

TARGET PARTICIPANTS

Students, Educators and Public officials

Junior Researchers & Professionals



13. Bayesian for Research and Data Science

May-July-Oct 2025

Compact 15-hour live and online training covering the following main topics

- Introduction and Setup Probability
- Theory Model Inference Bayesian A/B-testing
- Hierarchical Models
- Simple Linear Regression
- Logistic Regression
-

TARGET PARTICIPANTS

Data scientists and researchers

Analysts and academics



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14. Behavioral Econometrics

Feb – Oct 2025

Compact 17-hour live and online training covering the following main topics

- Historical development, Differences between classical and behavioral theory
- Loss aversion, time inconsistency, social norms, reciprocity, status quo
- What is Nudging? and Toolkit of instruments
- Engagement Mechanisms, Default Options (defaults), Social Comparison (descriptive and prescriptive).

TARGET PARTICIPANTS

Marketing and Policy teams

Professionals and economists



15. Advanced Forecasting Methods using forgetting variables

April 2025

Compact 6-hour live and online workshop covering the following topics

- Introduction to Bayesian Statistics:
- Introduction to Forgetting Variables:
- Dynamic Time Series Modeling:
- Model Evaluation and Validation with applications to real world

TARGET PARTICIPANTS

Data Analysts, Researchers and Students



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CGE MODEL DESIGN

for Governments and
Organisations

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Explore the service details and
areas of activities



16. Biostatistics and Medical biometry

April – Aug 2025

Compact 20-hour live and online training covering the following main topics

- Loss aversion, time inco1. Hazard function and Hazard ratios, Proportional Hazard Assumptions
- Parametric and semi-parametric Hazard Models, Kaplan Meier Curves in
- Randomized Controlled Trials
- Multiphase Optimization Strategy Implementation Trial (MOST)

TARGET PARTICIPANTS

Practitioners, Students and Researchers in Bio fields



17. Wavelets and Quantile on Quantile

Jan – Jun – Oct 2025

Compact 12-hour live and online training covering the following main topics

- Introduction to R-Programming Language and R-studio Interface
- The basic concept of Wavelet and its applications, Wavelet correlation, wavelet covariance, and cross-wavelet
- Continuous wavelet transform and cross wavelet transform
- Introduction to quantile on quantile and quantile autoregressive
- Granger causality in Quantile on Quantile regression
- Non-parametric quantile methods

TARGET PARTICIPANTS

Scholars, bankers, and data practitioners



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18.Introduction to derivatives

April-Sep 2025

NEW

Compact 20-hour live and online training covering the following main topics

- History of Derivatives
- Essential Mathematics
- Forwards and Futures
- Swaps
- Options strategies, pricing and Greeks

**TARGET
PARTICIPANTS**

**Finance staff, brokers, Traders,
bankers**



19. Behavioral Finance and Technical Analysis

NEW

May - Oct 2025

Compact 10-hour live and online training covering the following main topics

- Introduction to Behavioral Finance
- Technical analysis tools: Charts, Indicators, Candlesticks, Oscillators
- Extended technical analysis: Patterns, reversal trading, Gaps and Market Profile
- FX Strategies

**TARGET
PARTICIPANTS**

**Finance staff, brokers, Traders,
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20. Sustainability and Life Cycle Assessment

March–Oct. 2025

Compact 15-hour live and online workshop covering the following topics

- Introduction to LCA
- Inventory Analysis and Mathematics of LCA
- Economic and environmental flows
- Advanced Mathematics, LCIA and Multi-Functionality
- Life Cycle Interpretation

**TARGET
PARTICIPANTS**

**Environment Researchers and
policy makers**

Corporate Sustainability Staff



21. Finite Mixture Models: Principles and Applications

June 2025



Compact 8-hour live and online workshop covering the following main topics

- Introduction to Finite Mixture Models, fundamental concepts, and maximum likelihood estimation.
- Practical applications and identification of heterogeneous populations; use of statistical software such as R and MATLAB.
- Extension to skewed-normal distributions and structural break detection.

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**Data Analysts, Researchers
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22. Cluster Analysis: Techniques and Applications

April 2025



Compact 9-hour live and online workshop covering the following topics

- Introduction to Cluster Analysis, overview of clustering techniques, and evaluation metrics. case studies and hands-on practice.
- Fuzzy clustering and k-prototype methods for mixed data; case studies and hands-on practice.
- Advanced topics, including regularization techniques, time series clustering and application to large datasets; case studies and hands-on practice.

TARGET PARTICIPANTS

Data Analysts, Researchers and Students



23. Econometrics of Event Studies

March–Aug 2025

Compact 8-hour live and online workshop covering the following topics

- Introduction of Differences-in-Differences (Foundation of Event Studies):
- From Differences-in-Differences to Event Studies
- Common Specifications of Dynamic Differences in Differences.
- Introduction of Treatment Heterogeneity (New Event Studies):
- Callaway & Sant'Anna estimator

TARGET PARTICIPANTS

Researchers and Students



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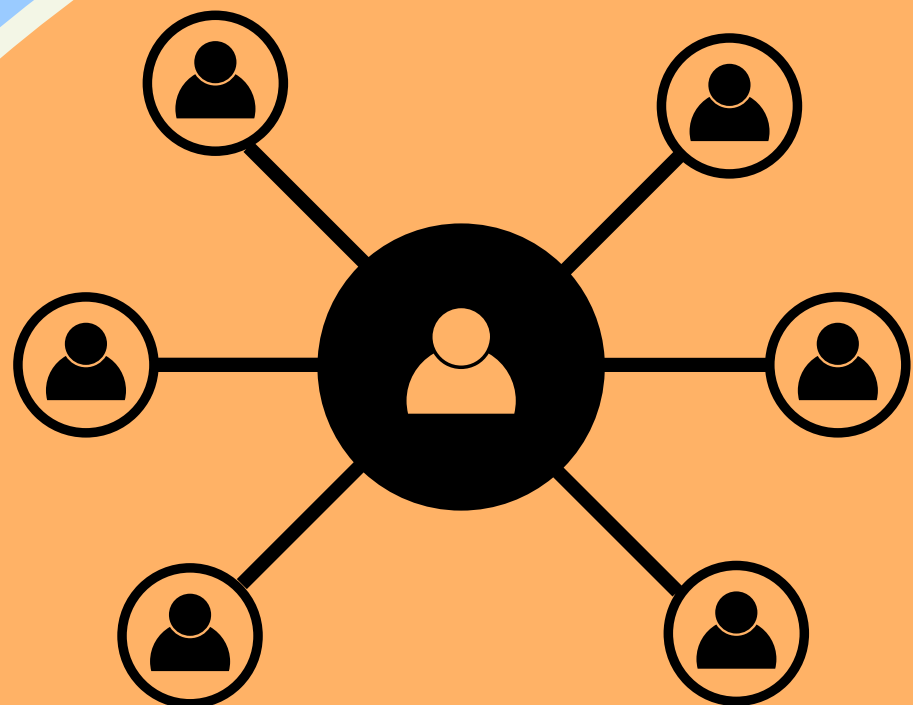
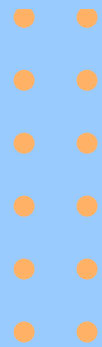


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Affiliation Program

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24. Text Mining and Natural Language Processing (NLP) with R and Python

August 2025



Compact 20-hour live and online training covering the following topics

- Introduction to Text Mining and NLP, Text Preprocessing
- Text Analysis in R and Python
- Sentiment Analysis
- Topic Modeling, Advanced NLP Techniques
- Building NLP Models
- Case Studies and Applications

TARGET PARTICIPANTS

Researchers, data scientists, linguists, and professionals in marketing and social sciences.



25. Econometrics for Climate Change: Modeling and Policy Analysis

June 2025



Compact 20-hour live and online training covering the following topics

- Introduction to Climate Econometrics, Data Collection and Preprocessing for Climate Studies
- Climate Econometric Models in R and Python, Impact Assessment of Climate Policies
- Advanced Climate Econometric Techniques
- Case Studies in Climate Policy Analysis Group Projects and Future Directions

TARGET PARTICIPANTS

Economists, environmental scientists, policymakers, and data analysts.

