FURTHER EDUCATION AND TRAINING

**BAMBERG
GRADUATE SCHOOL
OF SOCIAL SCIENCES**

LIfBi
**LEIBNIZ INSTITUTE FOR
EDUCATIONAL TRAJECTORIES**

*JOINT WORKSHOP
OF BAGSS AND LIfBi*

WORKSHOP

Multiple Imputation with Stata

Instructors: Dr. Paul Heisig, WZB Berlin

Time: Thursday, January 24, 2019: **09:00 – 16:00**
                Friday, January 25, 2019: **09:00 – 16: 00**

Place: LIfBi/109A

Registration: Please send a mail to weiterbildung@lifbi.de to register.

                Registration Deadline: **Monday, 15 October 2018 – Maximum of 20
                participants**

Summary and Goals
Missing data are a pervasive problem in the social sciences. This two-day course
introduces the method of Multiple Imputation, with a strong emphasis on implementing
the approach with the statistics package Stata. The course will be hands-on, with frequent
opportunities to practice the covered material.

Schedule
Day 1 reviews crucial concepts (random missingness, univarate vs. multivariate
missingness, monotone vs. non-monotone missingness), the method of Multiple
Imputation, and other common approaches to handling missing data. Participants are
then introduced to Stata's suite of mi commands and will learn how to use them to impute
missing data, conduct post-imputation diagnostics and analyze multiply imputed data. The
course will only briefly discuss imputation via Markov chain Monte Carlo methods and
primarily deal with imputation via iterated chained equations/fully conditional
specification, which currently is the more widely used technique in sociology and related
disciplines.

A substantial part of Day 2 will be devoted to practical issues that arise in multiple
imputation using chained equations (e.g., convergence problems) and other frequently

asked questions with practical relevance (e.g., whether to impute the dependent variable, how to impute interactions).

Participants will also learn how to write customized programs for obtaining MI estimates of quantities that cannot be recovered using Stata's core mi commands. In the afternoon of Day 2, participants will have the opportunity to discuss special topics, individual questions or missing data problems in their own research projects. Those participants who would like to benefit from this offer are asked to send a short description of their questions or problems to jan.heisig@wzb.eu (maximum 2 pages; deadline: 21.01.2019).

Prerequisites and recommended readings

Good knowledge of STATA.