

# UFZ Regular Courses for PhDs

Courses and topics recommended for doctoral researchers that we offer on a regular basis (every year or every two years)

## Transferable skills

### Recommended for 1<sup>st</sup> doctoral year (mandatory)

- Doing Your PhD Project at the UFZ
- Good Scientific Practice

### Recommended for 3<sup>rd</sup> doctoral year

- Excursion to stakeholder (e.g. UBA)
- Proposal Writing
- Career Planning for Doctoral Researchers
- Finish it! How to Finalize your Dissertation
- Thesis Defence Training

### Other topics

- Scientific Writing
- Review Processes
- Academic Presenting in English
- Visual Communication in Science
- Teaching Skills for Scientists
- Supervision of Master Students
- Mental Health for Early-Career Researchers
- Time and Self Management
- Critical Reasoning & Logic

## Statistics and related methods

### Introductory courses:

- Introduction to R
- Introduction to Python
- Introduction to the Galaxy Server
- Introduction to Research Data Management
- Effective Graphics and Visualization (R/Python)
- Introduction to Applied Statistics using R
- Data Filtering and Quality Control using R
- Design and Analysis of Ecological Experiments

### Intermediate courses

- Introduction to Version Control with Git
- Introduction to LINUX and the UFZ HPC EVE
- Multiple Regression and Model Selection using R
- Introduction to Robust and Nonparametric statistics
- Introduction to Multivariate Statistics: Ordination and Clustering
- Generalized Linear Mixed Models using R
- Introduction to Geostatistics (Python/R)

### Advanced courses

- Introduction to Bayesian Inference (R/Python)
- Deep Learning Using Python