



ukb universitäts
klinikumbonn



DeepMI

FastSurfer / FreeSurfer

course

October 14-16, 2026

DZNE | Bonn | Germany

Scan for more
information:



A hands-on, introductory course on
state-of-the-art methods for fast and
reliable neuroimage analysis



DeepMI Lab @ German Center for
Neurodegenerative Diseases (DZNE)

dzne.de | deep-mi.org/fast-surfer-course



DZNE/Kühne



Course topics

Segmentation

- Deep-learning-based segmentation of anatomical brain images
- From images to metrics: extracting and quantifying anatomical features

Surfaces

- Surface models and surface-based morphometry
- Surface registration and the preparation of statistical analyses

Longitudinal analysis

- Unbiased within-subject registration and person-specific templates
- Advanced statistical analysis using linear mixed-effect models

Group analysis

- The general linear model in neuroimaging analyses
- Statistical inference: hypotheses, contrasts, tests, significance

QC and edits

- Quality control of images, segmentations, and outputs
- Edits, troubleshooting, and practical issues

FastSurfer ecosystem

- Specialized applications and add-on modules
- Outlook to ongoing and planned developments

Course schedule

Wednesday, October 14		Thursday, October 15		Friday, October 16	
13:30 - 13:45	Welcome	09:15 - 10:45	Analyzing individual cases 2: surfaces	09:15 - 11:15	Group analysis: statistical modeling and inference
13:45 - 14:30	FastSurfer / FreeSurfer overview: Introduction to structural neuroimaging	11:15 - 12:30	Analyzing individual cases 2: exercises	11:30 - 12:30	Group analysis: exercises
14:45 - 15:45	Analyzing individual cases 1: segmentations	13:30 - 15:00	Longitudinal processing and analysis	13:30 - 14:15	The FastSurfer ecosystem
16:00 - 17:30	Analyzing individual cases 1: exercises	15:30 - 17:00	Quality control and edits	14:15 - 15:00	Wrap-Up and Farewell

All lectures come with demonstrations and practical exercises

Registration is open until September 22 or until all spots are filled. The course fee is EUR 250.

Register here:

deep-mi.org/fast-surfer-course/registration

