

## Gesture coding with the NGCS - ELAN system

### **Instructors:**

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### **Instructor Resume:**

Hedda Lausberg is a Full Professor of Psychosomatic Medicine, neurologist, psychiatrist, dance/movement therapist, co-founder of the Berlin Gesture Center ([www.berlingesturecenter.de](http://www.berlingesturecenter.de)). Her main research interests are the development of behavioral tools for coding body movement and the neuropsychology / neurobiology of movement behavior (split-brain and neuroimaging studies). She teaches the movement coding systems NGCS, MPI, KBA.

Han Sloetjes is a certified software developer who has been active for the MPI for Psycholinguistics since 2003. He is currently the main responsible person for maintaining and extending the annotation tool ELAN (<http://www.lat-mpi.eu/tools/elan/>).

### **Duration:**

4 hours

### **Benefits:**

The NGCS-ELAN system is a tool for empirical gesture research that combines an objective kinetic and a functional analysis. The Neuropsychological Gesture Coding System (NGCS) is based on neuroscience research, specifically on the evidence that different gesture categories and types are generated in different brain regions and that they are associated with different cognitive (spatial cognition, language, praxis) and emotional functions.

In this tutorial, participants will learn about the structure and theoretical background of NGCS and its application in ELAN. The focus of the tutorial is on the practical use of the NGCS-ELAN system.

### **Features:**

## The theoretical part (1 hour)

1. State of the Art in Gesture Research Methodology
  - 1.1. Gesture Coding Systems
  - 1.2. Methodological Problems
2. The Neuropsychological Gesture Coding System
  - 2.1. Theoretical assumptions underlying the Neuropsychological Gesture Coding System
  - 2.2. Aims and Application
  - 2.3. Definition of the Gesture Coding Criteria and the Neurobiology behind (Kinetic Analysis: Gesture Laterality, Gesture Location, and Gesture Structure; Functional Analysis: Gesture Categories and Gesture Types)

## The practical part (5 hours)

3. NGCS - Training of Gesture Coding
  - 3.1. Module I - Coding
  - 3.2. Module II - Coding
  - 3.3. Coding with Supplementary Modules
4. ELAN
  - 4.1. The basics of media annotation (coding) with ELAN
  - 4.2. Creation and application of Controlled Vocabularies in ELAN

### **Audience:**

Any researcher and student involved in empirical gesture research, apraxia research, non-verbal communication research, or clinical behavioral research in psychiatry and psychosomatic medicine. However, no pre-existing knowledge is assumed.

Participants should bring their own laptop and preferably have ELAN installed (<http://www.lat-mpi.eu/tools/elan/>) and downloaded the NGCS/ELAN template from <http://www.lat-mpi.eu/tools/elan/thirdparty>.