



Berlin Gesture Center



NEUROGES –

**A coding system for hand movement
behavior and gesture**

**Seminar II: Gestures and conceptual
hand movements**

The NEUROGES Training

NEUROGES - A coding system for the empirical analysis of hand movement behavior and gesture as a reflection of cognitive, emotional, and interactive processes

The NEUROGES Coding System is a research tool for the empirical analysis of spontaneously displayed hand movement behavior that accompanies interaction, cognitive processes, and emotional experience (www.neuroges-bast.info). NEUROGES is designed for diagnostic purposes as well as for basic research, i.e., to further explore the anatomy of hand movement behavior and gesture in its relation to cognitive, emotional, and interactive processes. Fields of application are interaction analysis incl. psychotherapy, psychodiagnostics, experimental and clinical neuropsychology, linguistics, and anthropology. In combination with the annotation software ELAN, in a multi-stage evaluation process resulting in more and more fine-grained units, the behavior is segmented and classified according to the movement criteria. The objectivity, reliability, and validity of the NEUROGES categories and values has, thus far, been tested in 18 empirical research studies, including more than 500 participants of different cultures, healthy adults and children as well as individuals with brain damage or mental disease (Lausberg & Slöetjes, 2015).

The NEUROGES Training

The training in the NEUROGES system comprises two seminars (<http://neuroges.neuroges-bast.info/training>):

Seminar I: Hand movement behaviour

Seminar II: Gestures and conceptual hand movements

Each seminar can be booked separately. However, for the participation in Seminar II knowledge of the content of the previous seminar is strongly recommended.

Robert Rein

PhD, Graduate in Sports Science, Sports Medicine, and Physics, research assistant at the Institute of Cognitive and Team / Racket Sport Research German Sport University Cologne.

Melanie Seiler

PhD, Graduate in Biology. Since 2013, research assistant at the Department of Neurology, Psychosomatic Medicine, German Sport University Cologne. Her main research interest is the behavioral science.

Harald Skomroch

Graduate in Sports Science, English Studies and Educational Science. Since 2009, working at the Department for Neurology, Psychosomatic medicine, and Psychiatry, German Sport University Cologne, first as a student assistant, after his graduation in 2011 as a research assistant. He held workshops on NEUROGES and internal rater trainings and worked on different projects investigating hand movement behavior as well as interpersonal coordination.

Han Slöetjes

Software developer at the Max Planck Institute for Psycholinguistics in Nijmegen (The Netherlands). He is a Sun certified Java programmer who joined the Technical Group at the MPI in 2003. There, he is mainly occupied with the further development of the multimedia annotation tool ELAN (<http://www.lat-mpi.eu/tools/elan>) and is currently the main responsible person for maintaining, extending and teaching this tool.

Lecturers:

Ingo Helmich

PhD, Graduate in Sports Science. Since 2009, research assistant at the Department of Neurology, Psychosomatic Medicine, and Psychiatry, German Sport University Cologne. His main research interest is the neuropsychology of movement behavior. Furthermore, he investigates neural processes of sports-related concussion and works on the development of functional Near InfraRed Spectroscopy as a brain imaging device.

Ippokrates Konstantinidis

Since 2013, student research assistant at the. Department for Neurology, Psychosomatic medicine, and Psychiatry at the German Sport University Cologne. Working with NEUROGES for the AUVIS project.

Hedda Lausberg

Full Professor of Neurology, Psychosomatic Medicine, and Psychiatry at the German Sport University Cologne. Co-founder of the Berlin Gesture Center. Her main research interest is the neuropsychology of movement behavior, i.e., the relation between movement behavior and cognitive, emotional, and interactive processes. Furthermore, she focuses on method development in movement analysis. She has developed the NEUROGES-system and the BAST-system.

Niklas Neumann

Since 2015, student research assistant at the. Department for Neurology, Psychosomatic medicine, and Psychiatry at the German Sport University Cologne. Working with NEUROGES for the SOPHONET project.

Preliminary Program

Seminar II: Gestures and conceptual hand movements

Part 1: 15 – 17 March 2017

15.03.2017 **Module II Formal Relation category and Module III Function category**

09:00 – 10:30	The Formal Relation category
11:00 – 12:30	Formal Relation Coding
13:30 – 15:00	Recent Empirical Data on the Formal Relation category
15:30 – 17:00	Module III and the Function category

16.03.2017 **Module III Function category**

9:00 – 10:30	The Function category
10:45 – 12:15	Function coding
13:30 – 15:00	Function coding
15:30 – 17:00	Recent empirical Data on the Function category

17.03.2017 **Module III Type category**

9:00 – 10:30	The Type category
10:45 – 12:15	The Type category; Type coding
13:30 – 15:00	Type coding
15:30 – 17:00	Recent Empirical Data on the Type category

Self-study phase

Revision of Modules II.2 and III values with the interactive CD

Modules II and III coding of the 4 training videos on the interactive CD

Team work: exchanging the coded files and calculating interrater agreement

Part 2: 8 and 9 June 2017

08.06.2017 Supervision Modules II.2 and III, and exam

09:00 – 10:30 Supervision of self-study training video codings

10:45 – 12:15 Supervision of self-study training video codings

13:30 – 15:00 Exam

15:30 – 17:00 Exam

09.06.2017 Interaction Analysis

09:00 – 10:30 The NEUROGES interaction analysis

10:45 – 12:15 Assessing interactional behaviour with NEUROGES

13:30 – 15:00 Recent empirical studies on interaction with NEUROGES

15:30 – 17:00 Supervision of the individual projects on Module II.2. and III

Information and Registration

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Deadline for registration (applies also to free of charge participants):

December 31, 2016. **The number of participants is limited to 12.** In case of more than 12 registrations, these are considered according to the temporal order of receipt.

Seminar fee

Fee for seminar II: each Block 325 €, reduced 275 € (for students)

Fee for seminars I and II: 640 €; reduced 485 € (for students)

The fee for seminar I includes the NEUROGES course reader (published in Peter Lang), the Coding Manual, the interactive training CD, the NEUROGES template, and the participation in the exam (successful participants are given the NEUROGES rater certificate).

Venue

German Sport University Cologne

Am Sportpark Müngersdorf 6

50933 Cologne, Germany

Public transportation by Tram 1, direction Weiden West / Junkersdorf;

Stop: Junkersdorf / Sporthochschule