

## Exploring Talk and Gaze – Workshop on Mobile Eye Tracking and its Applications for the Analysis of Human Interaction

1 May 2017, Université de Lausanne, Anthropôle, room 4021

This interdisciplinary workshop is organized by the chair for German Linguistics at University of Lausanne and is aimed at researchers and students interested in exploring the role of gaze in verbal interaction. The objective of the workshop is twofold: First, it aims at a deeper understanding on how gaze intertwines with talk and other embodied resources both in mobile (Peter Auer) and in stationary settings (Geert Brône). Secondly, it encourages an interdisciplinary discussion on the research potential of applying mobile eye tracking technology to various fields of research in the humanities as well as on its possible limitations.

### Invited Speakers:

Prof. Dr. Peter Auer is Full Professor of Germanic Philology (Linguistics) at the University of Freiburg/Br. His research areas include bilingualism, sociolinguistics, dialectology, phonology, prosody, syntax and interaction analysis. He was co-director of the School of Language and Literature and Senior Fellow at the Freiburg Institute for Advanced Studies (FRIAS). Recently, he began to apply mobile eye tracking to the investigation of verbal interaction.



### Abstract

I will present some preliminary observations on how the study of interaction can profit from mobile eye-tracking technologies. Compared to people talking in immobile F-formations, walking usually requires a side-by-side arrangement in which gaze and its link to participation formats follows its own organizational principles. In addition, they monitor their environment for (jointly) finding their way and for detecting potential problems linked to their movement in public space. I will discuss some examples that show how walkers use gaze to coordinate talk and their behaviour in space.

Prof. Dr. Geert Brône is Professor in Cognitive Discourse Analysis and German Linguistics at the Department of Linguistics (KU Leuven, Campus Antwerp). His research embraces on a cognitive approach to grammar, interaction and multimodality. He is principal investigator of an ongoing research project on mobile eye-tracking in human interaction entitled "Eye gaze in multimodal interaction management. An interdisciplinary study on speech, music and signed language" (co-funded by Research Foundation Flanders and the University of Leuven).



### Abstract

When using eye-tracking technology as a data collection tool for research on human (face-to-face) interaction, one of the key challenges is to arrive at systematic patterns in the continuous stream of information provided by such systems. In this presentation, I focus on micro-gaze events, i.e. short gaze aversions and gaze shifts, with a maximum duration of 500 milliseconds, as they are produced by both speakers and their addressees in the interaction. Drawing on data from different settings, I show how these gaze events are tightly co-ordinated with events at the verbal and gestural level, realizing composite signals (Clark 1996) or integrated messages (Bavelas et al. 2002).

Prof. Dr. Anja Stukenbrock

|||||

## Schedule

09:00-09:15	Opening
09:15-09:30	Welcome Speech: Prof. Dr. Anja Stukenbrock (Université de Lausanne)
09:30-10:30	Prof. Dr. Peter Auer (Albert-Ludwigs-Universität Freiburg): „Walking and Talking“
10:30-11:00	Coffee Break
11:00-12:00	Prof. Dr. Geert Brône (KU Leuven): „Multimodal microphenomena. On the relationship between gaze events and speech in spontaneous and interpreter-mediated interactions“
12:00-12:30	Discussion
13:00	Lunch at Restaurant Da Nino
14:30-16:00	Project meeting (internal)

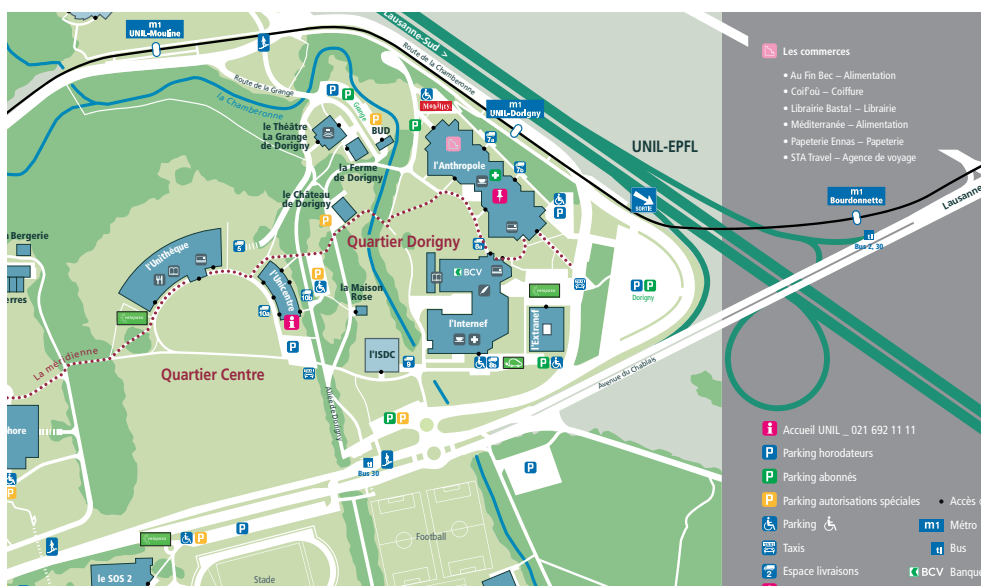
\*\*Unfortunately, we cannot provide reimbursement for accommodation and/or travel costs.\*\*

To register for this workshop, please write to **Sophie Dettwiler** (sophie.dettwiler@unil.ch).  
The registration deadline is **Wednesday, April 26**.

For further information please contact **Anja Stukenbrock** (anja.stukenbrock@unil.ch).

### How to get to the workshop:

Université de Lausanne, Quartier Dorigny  
Bâtiment Anthropôle (<http://planete.unil.ch/plan?t=b&i=ANT>), room 4021



To get to the Workshop from the main train station in Lausanne, take the Metro Line 2 towards Croisettes. Change to the M1 at Flon and get out at the UNIL-Dorigny station. You will see the Anthropôle building in front of you. The workshop will take place on the forth floor at the end of the corridor near an ancient horse statue.

Prof. Dr. Anja Stukenbrock

|||||

Tél.+41 (0)21 692 29 82 | lehrstuhl für germanistische linguistik | [www.unil.ch/all/home.html](http://www.unil.ch/all/home.html)