

## **Workshop on Generalized Additive Models (GAMs)**

The workshop will take place on August 30-31<sup>st</sup> at Leibniz-Centre General Linguistics (room 403). It is organized in cooperation with the Institut für deutsche Sprache und Linguistik, Humboldt-Universität zu Berlin.

This 2-lecture tutorial will provide a hands-on introduction to generalized additive modeling (GAMs), a flexible regression method able to model non-linear patterns (such as those occurring in time series data) while simultaneously taking into account fixed and random effect factors. In the first lecture, GAMs will be used to analyze non-linear patterns in articulatory data, whereas the second lecture will focus on non-linear interactions in ERP data.

**The tutorial will be led by Martijn Wieling (University of Groningen)**

**<http://www.martijnwieling.nl/>**

In preparation, it is useful to read: Wieling, M. (2018, forthcoming). Analyzing dynamic phonetic data using generalized additive mixed modeling: a tutorial focusing on articulatory differences between L1 and L2 speakers of English. Journal of Phonetics:

<http://martijnwieling.nl/files/GAM-tutorial-Wieling.pdf>

The slides of both lectures can be found here:

<http://www.let.rug.nl/~wieling/Statistics/GAM-Intro/#1> (please use arrow keys to move from slide to slide)

<http://www.let.rug.nl/~wieling/Statistics/GAM-EEG/#1>

Please use the following form to register:

<http://www.123formbuilder.com/form-3664949/Event-Registration-Form>

Workshop programme:

Thursday, 30.08.2018:

10-11.30 Introduction to GAMs

11.30-11.45 Coffee break

11.45-13.30 Lab 1: Introduction to GAMs

13.30-14.30 Lunch break

14.30.-16.30 Analysis of participants' data

Friday, 31.08.2018

10-11.30 Interactions with GAMs

11.30-11.45 Coffee break

11.45-13.30 Lab 2: Interactions with GAMs

13.30-14.30 Lunch break

14.30.-15.30 Analysis of participants' data

If you have any questions, please contact Marzena Zygis ([zygis@leibniz-zas.de](mailto:zygis@leibniz-zas.de)) or Christine Mooshammer ([christine.mooshammer@cms.hu-berlin.de](mailto:christine.mooshammer@cms.hu-berlin.de))