

## Einladung zum Biometrischen Kolloquium

Gastgeber: Franz König (Medizinische Universität Wien)

### GEORG LANGS

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## IDENTIFYING AND USING STRUCTURE IN LARGE-SCALE ROUTINE MEDICAL IMAGING DATA

**19. März 2018 um 16:00 Uhr**

Jugendstilhörsaal, Rektoratsgebäude (BT88)

Medizinische Universität Wien, Spitalgasse 23, 1090 Wien

<https://cemsii.meduniwien.ac.at/allgemeines/anschrift/>

#### **Abstract:**

Clinical routine is producing a wealth of imaging data and connected information representing disease progression and treatment response paths of individual patients. While this data holds rich and valuable information, at the same time it is highly heterogeneous. In the talk I will give an overview of methods that enable the analysis of imaging data on a population level. Methods include the alignment of imaging data to establish anatomical correspondence, the detection of known markers, and the identification of new predictive marker patterns in images. I will show examples where we have used these patterns to predict future progression and response, and will conclude with recent work that focuses on the identification of phenotypes - groups of patients with similar characteristics - in large-scale routine imaging data.

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**Wiener Biometrische Sektion**

<http://www.meduniwien.ac.at/wbs/>

**Vorstand**

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