



# The CLARIN Knowledge Center of Lund University Humanities Lab



LUND UNIVERSITY

Johan Frid

Lund University Humanities Lab is a department for research infrastructure, for interdisciplinary research, and training at Lund University. It is open to users across Lund University and beyond. We host technology, methodological know-how, data management and archiving expertise, and many research projects.

The Lab is a member of the Swedish national consortium for language technology, Swe-Clarín (<http://sweclarin.se>). In 2017 the Lab became a certified CLARIN Knowledge Centre with special focus on multimodal and sensor-based methods.

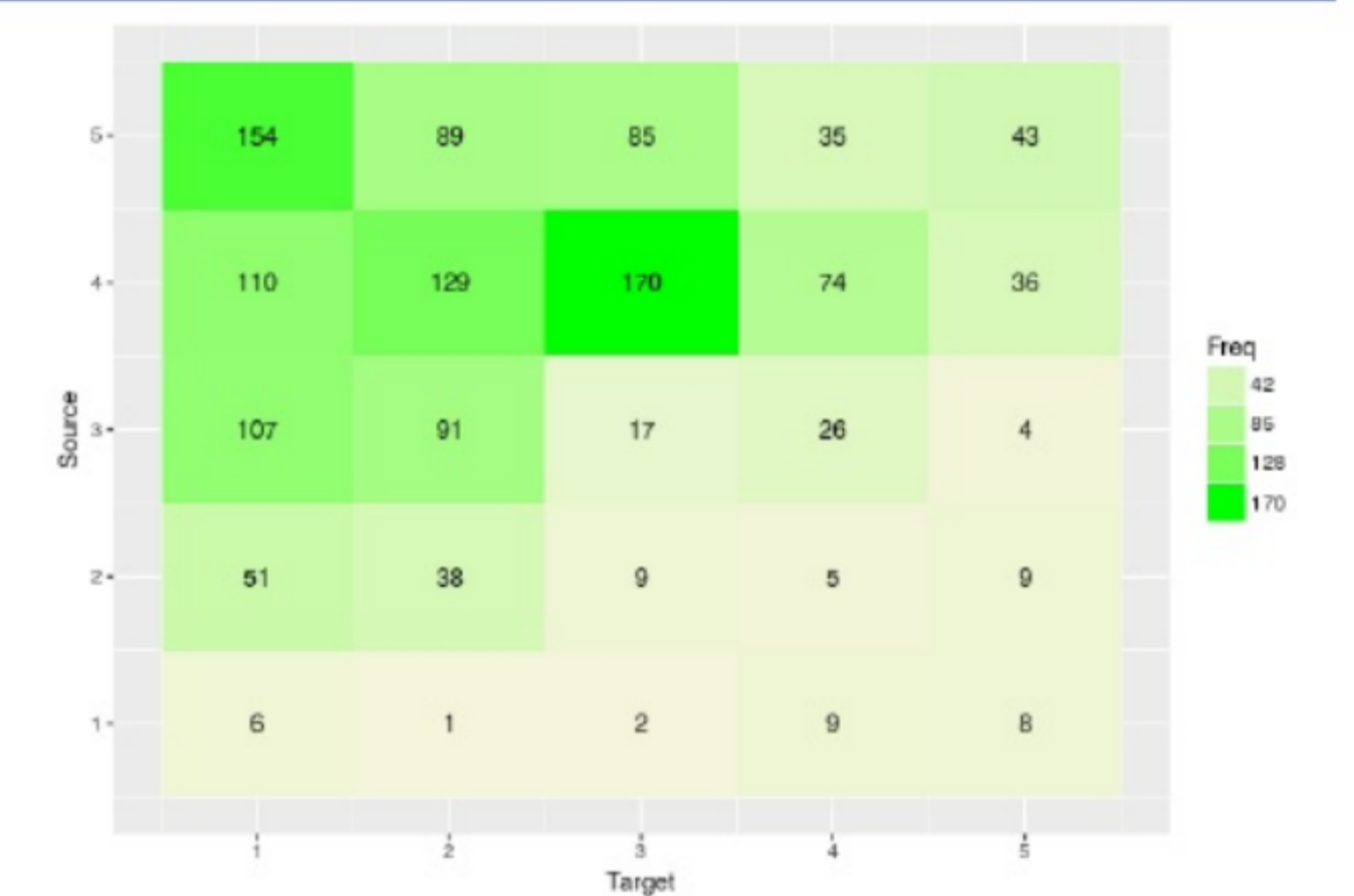
The Swe-Clarín node at the Lab supports and collaborates with a wide range of projects.

## Historical linguistics/Language typology

**DiACL** (MAW/Crafoord, PI: Gerd Carling). Develops and maintains an open access database with lexical and typological/morphosyntactic data for historical, comparative and phylogenetic linguistics. It contains data from 500 languages of 18 families, divided into three macro-areas: Eurasia, Pacific, and the Amazon.

## FREQUENCY OF CO-OCCURRENCE AS SOURCE AND TARGET LANGUAGE IN RELATION TO LANGUAGE SIZE

- Larger language (5-3) → smaller language (1-3) is most frequent.
- Larger language (5-3) → larger language (5-3) is also relatively frequent.
- Minor language (1) → any other language is rare.
- Medium language (2-4) → medium language is uneven in directionality (most likely due to the tricky coding of Medieval languages)



Heat map demonstrating frequency of co-occurrence as Target (x) and Source (y) language defined as language size (1-5), based on 1308 loan events

## Language archiving/Minority languages

**RWAAI** (RJ, PI: Niclas Burenhult). RWAAI is committed to the preservation and ongoing maintenance of both legacy and recent research materials documenting the languages and cultures of Austroasiatic communities of Mainland Southeast Asia and India. The various corpora include a range of materials, among them audio and visual recordings, transcriptions and annotations, dictionaries and wordlists, photos, drawings, and maps.

RWAAI  
HUMANISTISKA OCH TEOLOGISKA FAKULTETERNAS | LUNDS UNIVERSITET

The repository  
About RWAAI  
Austroasiatic  
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**RWAAI**

Repository and Workspace for Austroasiatic Intangible Heritage

The Repository and Workspace for Austroasiatic Intangible Heritage is a digital multimedia resource dedicated to the maintenance of research materials documenting the intangible heritage of the Austroasiatic communities of Mainland Southeast Asia and India. It is the first resource dedicated to a specific language family in this diverse and dynamic region.

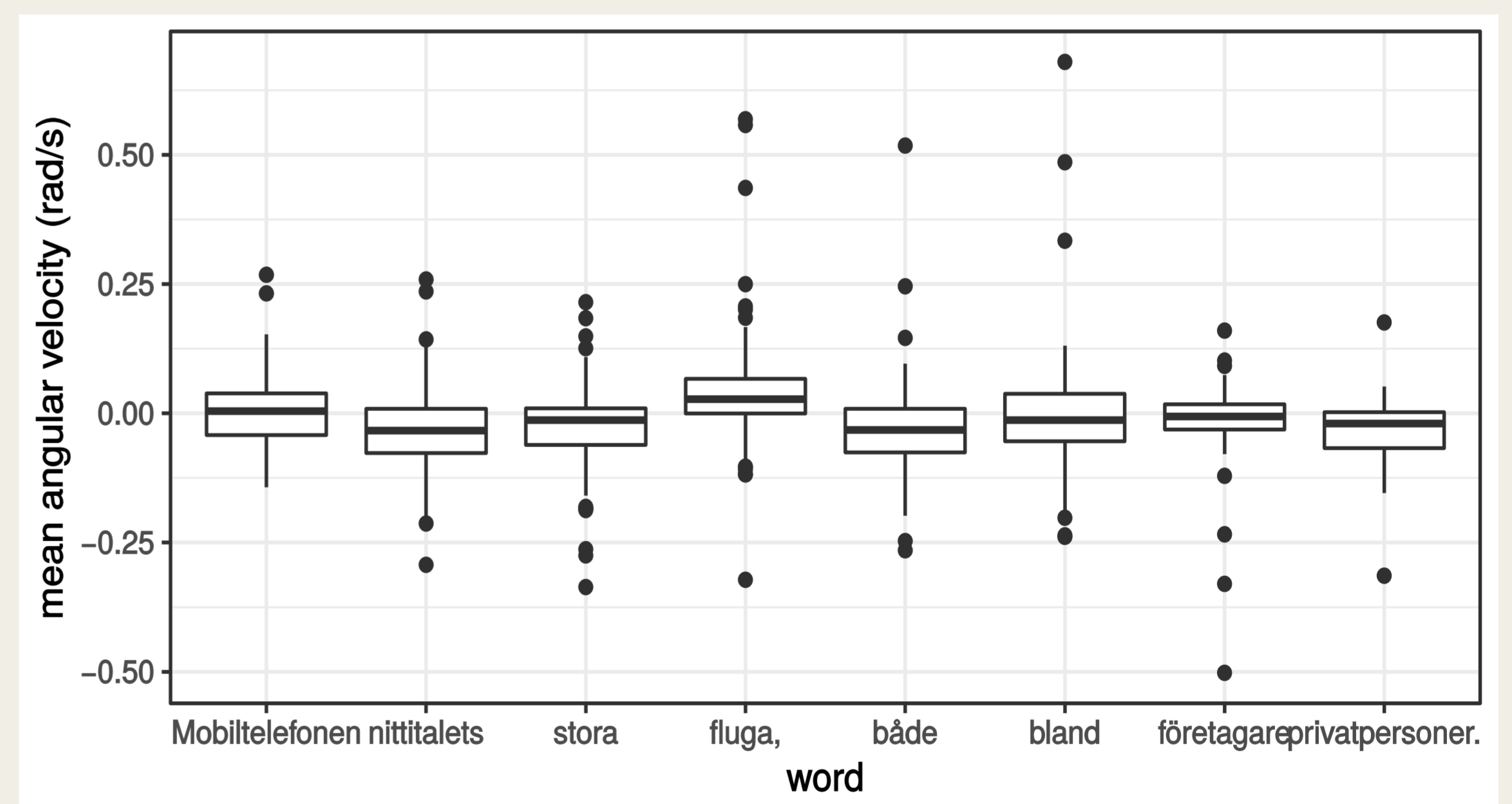
The acronym RWAAI is an adaptation of the proto-Austroasiatic form \*rwaay. It is reconstructed in many branches of the family and means 'souf', or the conceptually related 'tiger-spirit' or 'tiger'. For example, in the Assam branch there is 'Santal rwaay' 'headsof', and Cak Weng rwaay and Sama-Bel rwaay both meaning 'souf'. In the Khmuic branch there is Mlabri rwaay 'tiger', and in the Palaungic language Laned rwaay 'tiger' also means 'tiger'.

RWAAI was generously funded by a Riksbankens Jubileumfond Infrastructure Grant, and administered by the Centre for Languages and Literatures. The Repository and Workspace are housed on servers hosted by the Humanities Lab. The Lund University facility is a part of the pan-European Clarín Initiative, which seeks to establish integrated and interoperable infrastructure for languages and language technology. The Language Archive, MPL, Nijmegen provide software and technical expertise in this framework.

Kruspe et al. <http://projekt.ht.lu.se/rwaa>

## Multimodal prosody

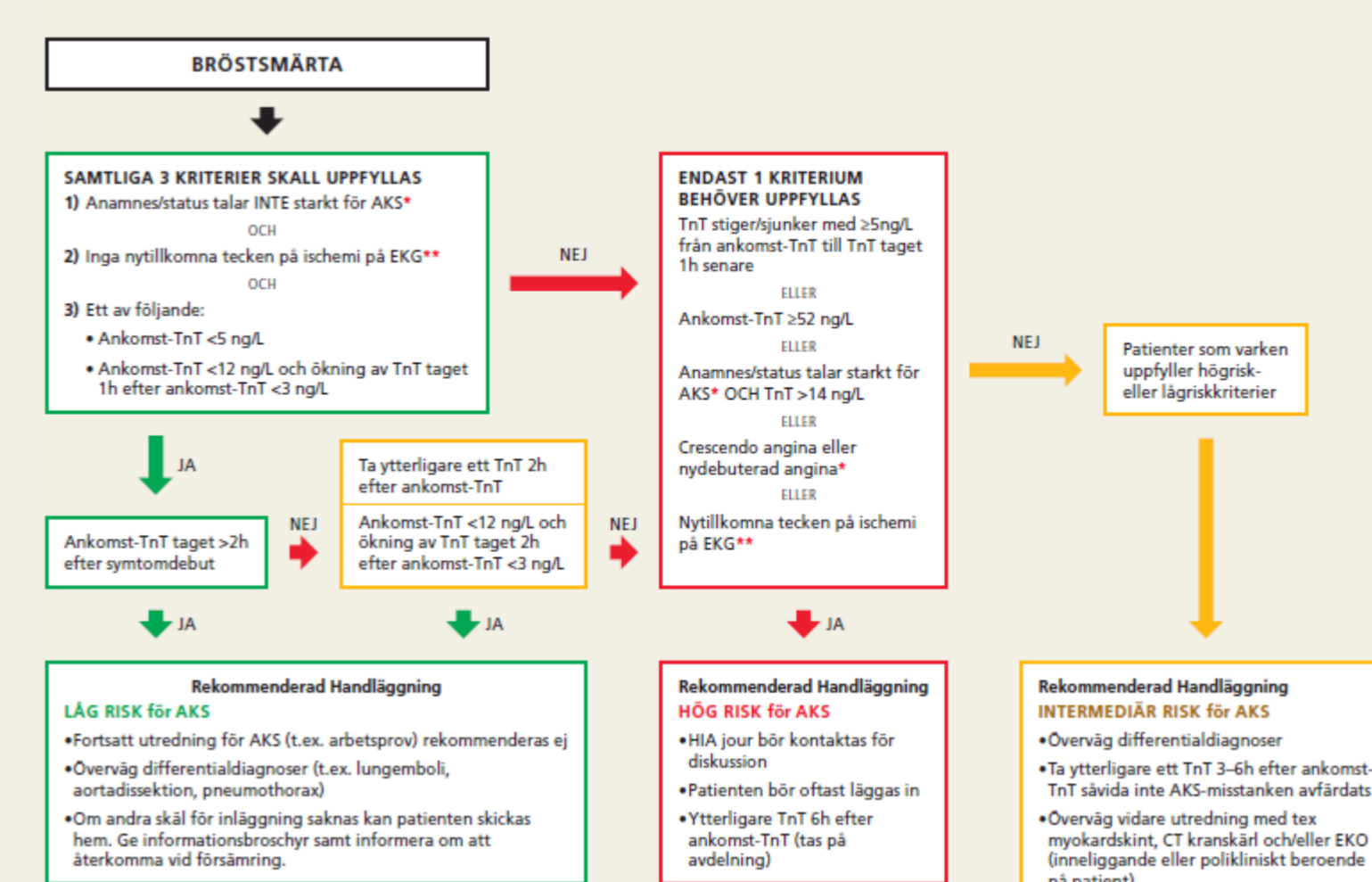
**PROGEST** (VR, PI: David House, Collaboration between Lund university and KTH Stockholm) This project uses articulatory, motion capture and acoustics to investigate the relation between head movements, gestures, articulation and prosody, for instance the temporal synchronization of head movements and prosodic boundaries.



## E-Health

**Effektivare och mer jämlik akutvård med hjälp av avancerade medicinska beslutsstödsystem** (VINNOVA, PI: Jonas Björk, Collaboration between Lund university, Clinical Studies Sweden and Skåne University Hospital). The project will develop a decision support system for acute myocardial infarction and unstable vasculitis that will make the treatment of the patient group more efficient and even more balanced. Will use and develop medical NLP methods and resources.

## Algoritm för handläggning av bröstsmärtepatienter



Enrich with: IE through NLP analysis of health records