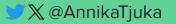
Body part vocabularies across languages

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Max Planck Institute for Evolutionary Anthropology 23/04/2024

Agenda

- I Introduction
- II Aim
- III Materials & Methods
- IV Results
- V Conclusions
- VI Your Questions



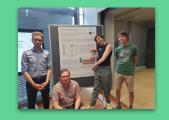
















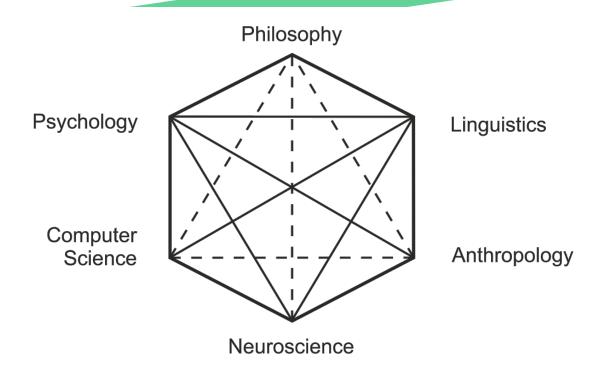
BA and MA in linguistics from Humboldt-Universität zu Berlin

PhD in linguistics from Friedrich-Schiller-Universität Jena

My main goal is to answer questions about linguistic diversity with a focus on language variation in word meanings.

Fun fact: I worked in advertising before starting my academic career.

Cognitive Science



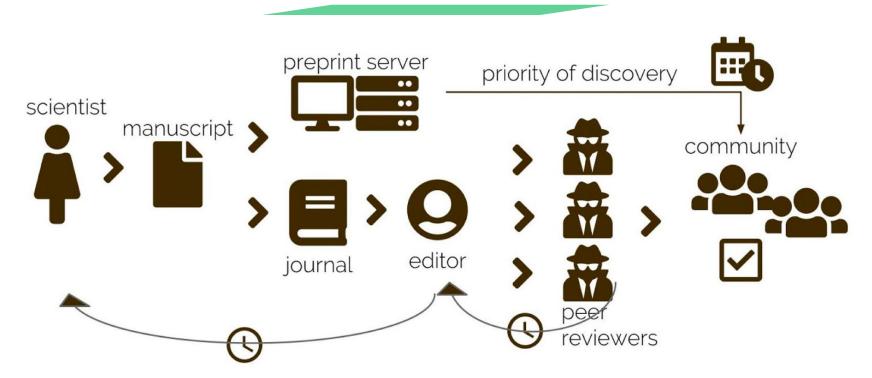
Background

The article is part of my PhD thesis.

It took about 2.5 years before the study was ready to be submitted to a journal.

The article received positive feedback in the first round of reviews from Scientific Reports.

Background



Question

How many languages are spoken across the world?

Introduction

About 6,500 languages are spoken worldwide.

Languages vary in how they divide the world into words.

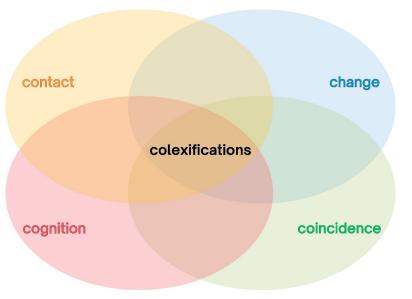
Comparing vocabularies across languages reveals insights into human cognition and cultural variation.

Aim

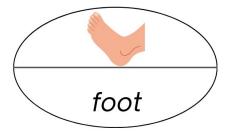
Finding regularities in word meanings and causes for language variation.

The same lexical form is used for two different concepts in at least two genealogically unrelated languages (François 2008).

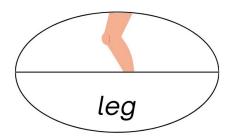
The analysis is based on cross-linguistic data.

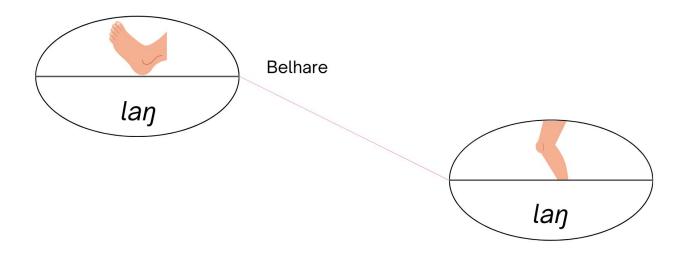


Topic

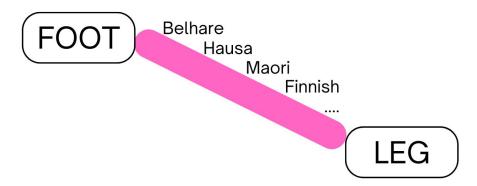


English





Topic

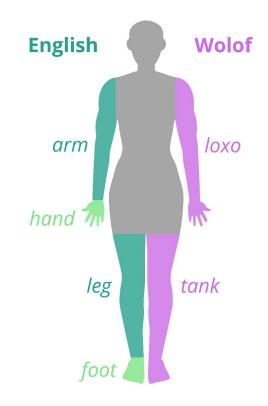


Topic 13

Body part vocabularies

Analysis of perceptual features: contiguity, function, shape

Comparison of semantic domains: colour, emotion

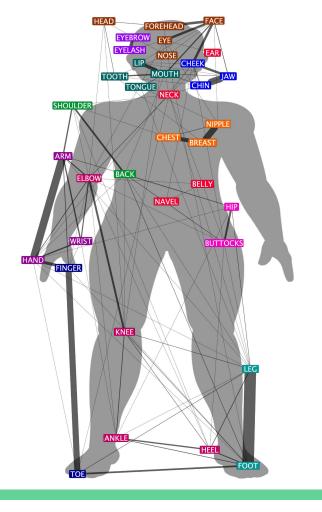


Tjuka et al. (in revision): Scientific Reports

Materials & Methods

- o 51 data sets from Lexibank (List et al. 2022) including phonetic transcriptions
- 36 human body part concepts from Concepticon v2.5
- Automated identification of full colexifications
- New, transparent workflow including cognate detection
- 110 body part colexifications across 1,028 language varieties

Tjuka (2021b; 2022b): Concept list description in Computer-Assisted Language Comparison in Practice

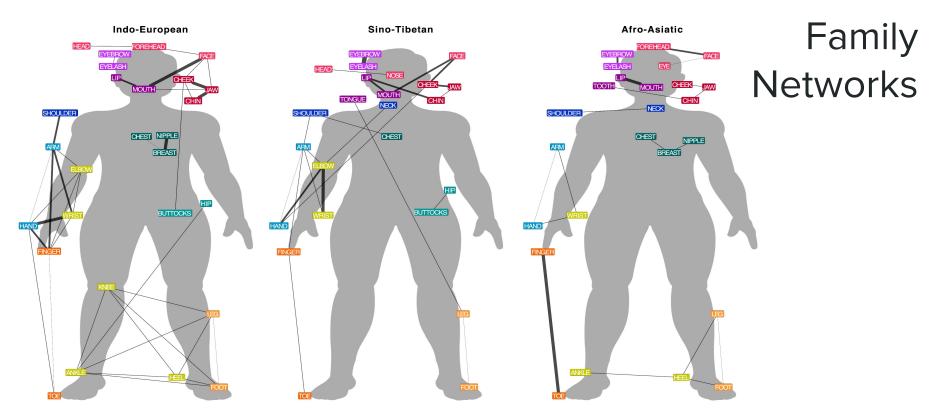


Body Part Network

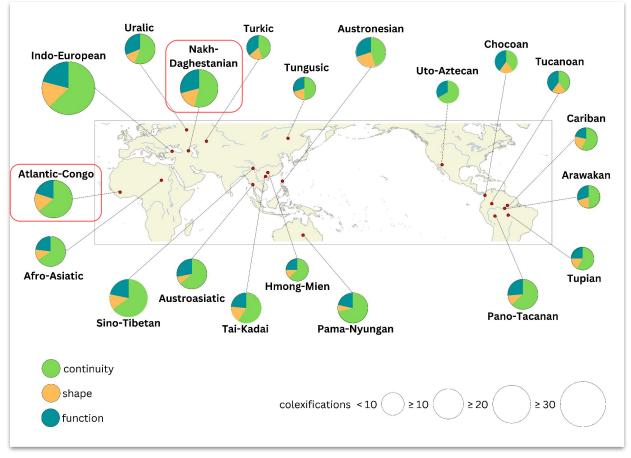
Few widespread,

many language-specific colexifications.

Tjuka et al. (in revision): Scientific Reports



Tjuka et al. (in revision): Scientific Reports



Tjuka et al. (in revision): Scientific Reports

Conclusions

Contiguity drives most colexifications between body parts.

Preferences for perceptual features differ across languages.

Thank you