Comparative corpus linguistics: new perspectives and applications

Workshop proposal for the 51st Meeting of the SLE

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Call for papers

Convenors:

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Although the main bulk of existing corpus-based research is probably formed by language-specific descriptive studies, corpora have long been used successfully for large-scale language comparison and for testing linguistic generalizations, e.g. Zipf (1935) and Greenberg (1960). Nowadays, linguists can enjoy the abundance of large comparable and parallel corpora and other multilingual resources, such as the Universal Dependencies Corpora (Nivre et al. 2017), the parallel Bible translations (Mayer & Cysouw 2014), OPUS corpus (Tiedemann 2012), Multi-CAST (Haig & Schnell 2016) and Google Books Ngrams. The availability of such resources provides functional linguists, typologists, historical linguists and psycholinguists with new exciting opportunities to answer big theoretical questions, exemplified by successful applications of comparative corpus-based approaches such as the following:

- formulation, refinement and explanation of linguistic generalizations, e.g. Zipf's Law of Abbreviation (Piatandosi et al. 2011; Bentz & Ferrer-i-Cancho 2016), the principle of dependency length minimization (Futrell et al. 2015) and the principle of economy in morphosyntactic alternations (Haspelmath et al. 2014);

- computation of corpus-based measures that represent typological parameters, such as analyticity, syntheticity and complexity (e.g. Juola 1998; Szmrecsanyi 2009; Ehret & Szmrecsanyi 2016);

- using massively parallel and comparable corpora for unsupervised pattern detection, e.g. finding the universal conceptual dimensions of motion verbs (Wälchli & Cysouw 2012) and automatic extraction of typological features (Virk et al. 2017);

- development of new statistical methods, and probabilistic and connectionist approaches to the study of language acquisition (e.g. Chater & Manning 2006, Behrens 2008), in particular from a cross-linguistic perspective (MacWhinney & Snow 1985; Moran et al 2016);

- quantitative diachronic typology, e.g. development of manner and path verbs in Indo-European (Verkerk 2015);

- detection of areal patterns in genealogically related languages (e.g. van der Auwera et al. 2005; von Waldenfels 2015);

- usage-based explanations of the evolution of linguistic types, e.g. studies related to the Preferred Argument Structure hypothesis (Du Bois 1987; Haig & Schnell 2016);

- cross-linguistic comparison of probabilistic constraints on multifactorial language variation, e.g. the use of analytic and lexical causatives (Levshina 2016).

The aim of this workshop is to bring together typologists, functional linguists, psycholinguists and other specialists who use cross-linguistic corpora for testing their hypotheses, and corpus linguists who build and use such corpora to address research questions in linguistic diversity. We want to discuss the recent developments, perspectives and challenges of corpus-based language comparison. We seek contributions that sample a sizable amount of the world's languages, whether at the global level, or within particular families or areas. A list of potential contributions includes, but is not limited to, the following:

- case studies showing how one can use the information derived from corpora for the purposes of typological classification;

- corpus investigations of linguistic generalizations and explaining these findings in terms of processing-related, communicative and learning constraints or biases;

- corpus-based language comparison from a genealogical and/or areal perspective;

- corpus-based studies in diachronic typology and historical linguistics;

- studies addressing the problem of comparative concepts (Haspelmath 2010) and its consequences for comparative corpus linguistics, in particular, for the development of cross-linguistic annotation schemas;

- presentation of newly developed cross-linguistic corpora, preferably with a case study revealing their possibilities;

- discussion of statistical methods and visualization tools for analysing cross-linguistic corpus data.

If you are interested in participating in this workshop, please send your short abstract (up to 300 words), along with the name(s), affiliation(s) and contact information of all co-authors, to Natalia Levshina (natalevs@gmail.com) before **November 10** 2017. If the proposal is accepted, the contributors will have to submit full versions of their abstracts, which will be reviewed by the SLE scientific committee. We will keep you informed of all practical steps.

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