



Quantitative and formal modeling of historical sciences Coding and Comparing Syntactic Data

Dipartimento di Comunicazione ed Economia

Sala Riunioni, Palazzo Dossetti, Viale A. Allegri 9, Reggio Emilia

Monday, March 18, 2024	
14.00 - 15.00	<i>Introduction</i>
15.00 - 17.00	Giuseppe Longobardi Cristina Guardiano <i>An introduction to the Parametric Comparison Method: historical challenges in linguistics</i>
17.00 - 19.00	Practice session 1: Language families and quantitative taxonomies
Tuesday, March 19, 2024	
10.00 - 12.00	Giuseppe Longobardi Cristina Guardiano <i>An introduction to the PCM: parameters and parameter systems</i>
12.00 - 14.00	Practice session 2: Coding parameter implications
15.00 - 17.00	Andrea Sgarro <i>Distances for linguistic phylogenies</i>
17.00 - 19.00	Practice session 3: Measuring linguistic distances
Wednesday, March 20, 2024	
10.00 - 12.00	Giuseppe Longobardi Cristina Guardiano <i>An introduction to the PCM: exploiting syntactic distances</i>
12.00 - 14.00	Practice session 4: Generating distance-based syntactic taxonomies
15.00 - 17.00	Andrea Sgarro Giuseppe Longobardi <i>Phylogenetic methods beyond distances</i>
17.00 - 19.00	Practice session 5: Statistical testing
Thursday, March 21, 2024	
10.00 - 13.00	Paola Crisma <i>Setting parameter values in acquisition and on corpora</i>
15.00 - 17.00	Paola Crisma Giuseppe Longobardi <i>Parameters beyond families</i>
17.00 - 19.00	Practice session 6: Tools for investigating the syntax of closed corpora languages
Friday, March 22, 2024	
10.00 - 12.00	Monica Irimia <i>Syntactic variation across languages</i>
12.00 - 14.00	Practice session 7: Investigating crosslinguistic syntactic variation
15.00 - 18.00	Final practice session: Participants will present the results of practice sessions 1-7
18.00 - 18.30	<i>Closing remarks</i>

Short description (www.parametriccomparison.unimore.it section PhD Program)

The implementation of quantitative models, computational tools and automatic algorithms of data collection and analysis has brought into human sciences models, idealizations, and explanatory standards typical of natural sciences. This course explores how these tools are extended and applied to those human sciences that specifically deal with history and cultural transmission.

Major contents:

- introduction to formal models of human language structure and diversity: parameters, parameter systems, parameter setting
- application of computational techniques to code, annotate and parse linguistic data (syntactically annotated corpora)
- application of computational techniques for data processing and analysis to the quantitative assessment of language relatedness and to phylogenetic reconstruction

Attendance is open to anyone who is interested. For information: cristina.guardiano@unimore.it