Introduction to the Interdisciplinary Nature of Linguistics

Lecturer Srđan Popov (University of Groningen)
Level Introductory
Class Monday, slot 1

This introductory course to linguistics is intended for a wide audience, from linguists to students or professionals with no previous linguistic training. The course will cover a number of essential theoretical topics, mainly in the fields of morphology and syntax. The goal of the course is to prepare the students for the courses in psycholinguistics and neurolinguistics. The course is also of interest to (advanced) linguistics students, as it will focus in detail on a number of selected topics that will later be covered from an experimental perspective.

Neuroanatomy for Linguists

Lecturer Silvia Martínez-Ferreiro (University of A Coruña)
Level Introductory
Classes Monday, slot 2; Tuesday, slot 2

The course provides an overview of the main anatomical landmarks involved in speech and language production and comprehension. The course departs from genetics and a broad characterization of the phono-articulatory and the nervous system and deepens into cortical and subcortical structures relevant for language.

First Language Acquisition

Lecturer Mirjana Mirić (Serbian Academy of Sciences and Arts)
Level Advanced
Class Monday, slot 3

This course will present various theoretical approaches to the phenomenon of typical language acquisition, such as generative, cognitive and socio-cultural. The focus will be on the issues of inateness, universal grammar, poverty of stimulus argument, and critical period for language acquisition. Additionally, the course will present the milestones in language acquisition across different levels of linguistic structure.

Distributional Semantic Models of Cognition

Lecturer Dušica Filipović Đurđević (University of Belgrade)
Level Advanced
Class Monday, slot 4

This course will introduce the conceptual and historical background of distributional semantics and its application in cognitive psychology and psycholinguistics. We will start from the very roots of the idea that concepts can be represented as vectors in multidimensional semantic space and end by describing the Large Language Models as state-of-the-art. We will also provide a practical demonstration of how this approach can be used in testing psycholinguistic models of learning and processing word meanings.

Acquired Speech and Language Disorders in Children

Lecturer Vânia de Aguiar (University of Groningen)
Class 1 Tuesday, slot 1: Introduction to Acquired Childhood Aphasia
LEVEL Introductory
Class 2 Wednesday, slot 3: Speech and Language in Children With Posterior Fossa Tumours
LEVEL Advanced

This course will focus on speech and language disorders after brain damage in children. The first class (introductory) will familiarize students with acquired childhood aphasia across different clinical populations. The second class (advanced) will discuss the consequences of lesions to the cerebellum for speech and language, focusing on posterior fossa syndrome and the interplay between speech and language impairments in children with posterior fossa tumours.

Applied Statistics for Linguistics

Lecturers Ksenija Mišić (University of Belgrade),
Milica Popović Stijačić (Singidunum University)
Level Advanced
Classes Tuesday, slots 3 and 4

This course offers a gentle and accessible introduction to using mixed-effects regression models for psycho- and neurolinguistic data, by providing step-by-step tutorials in R studio. We will be using pieces of sample data from a reaction times experiment for the mixed-effect regression model, and from an eye-tracking experiment for a generalized mixed-effect regression model. The course requires no prerequisites; however, we recommend participants to bring along a laptop computer with R and R-studio installed.

Ethics and Data Management

Lecturer Srđan Popov (University of Groningen)
Level Introductory
Class Wednesday, slot 1

This course focuses on ethical (and legal) aspects of conducting research with human participants. We will talk about why it is necessary to have your research evaluated by an ethical committee and what to do in case there is no such body at your institution. Particular emphasis will be placed on the difference between research requiring medical ethical and non-medical/general ethical review. In addition, we will talk about general aspects of data and privacy protection, but we will also discuss (research) data handling in terms of the EU General Data Protection Regulation.

Introduction to Neuroimaging

Lecturer Christina Manouilidou (University of Ljubljana)
Level Introductory
Class Wednesday, slot 2

The course provides an introduction to the field of neuroimaging and its applications in language research. It is organized into two parts. Following a brief overview of the history and development of neuroimaging, the first part introduces three widely used techniques for investigating language processing in the brain: electroencephalography (EEG), magnetoencephalography (MEG), and functional magnetic resonance imaging (fMRI). Particular attention will be given to the fundamental principles, technical characteristics, and methodological advantages and limitations of each technique. Building on this foundation, the second part focuses on how these techniques are applied to address specific research questions in neurolinguistics. Through the examination of selected experimental studies, students will gain an understanding of how neuroimaging methods contribute to our knowledge of the neural mechanisms underlying language processing.

Bilingualism and Its Effect on Executive Functions

Lecturer Sabina Halupka-Rešetar (University of Novi Sad)
Level Advanced
Class Wednesday, slot 4

In this talk we are going to focus first on defining bilingualism and executive functions. We will then introduce theoretical frameworks that link bilingualism and executive functions and will provide empirical evidence for the bilingual advantage but will also dwell on the controversies and counterarguments for the bilingual advantage. We will explore the potential reasons behind the inconsistencies observed in research into bilingualism. Finally, drawing on an exploration of the role of language similarity on memory and executive functions by comparing the performance of three groups of young adults (two bilingual groups and a monolingual group), we will attempt to determine the extent to which the combination of languages spoken by the bilinguals contributes to an advantage in executive functions.

Experiment Design in PsychoPy

Lecturer Seçkin Arslan (University of Côte d'Azur)
Level Introductory
Class Thursday, slot 1

PsychoPy is a freely available open-source software tool (created by Jonathan Peirce) that can allow you to program experiments for psychology and linguistics. This tutorial will provide you with the basic principles of designing a simple experiment using PsychoPy using its builder interface. Following this tutorial, you will be able to build an experiment on your own laptop ready for data collection. Participants who will attend this tutorial are kindly asked to install PsychoPy beforehand.

Clinical Linguistics

Lecturer Silvia Martínez-Ferreiro (University of A Coruña)
Level Introductory
Classes Thursday, slot 2; Friday, slot 1

The course includes an overview of the main communication disorders. There is a focus on the description, assessment and treatment of speech and language pathologies occurring throughout the lifespan. This includes genetic, developmental, acquired, and degenerative conditions.

Eye-Tracking in Language Research

Lecturer Seçkin Arslan (University of Côte d'Azur)
Level Advanced
Class Thursday, slot 3

In this course, you will get the most important information about eye-tracking as a method used in language processing studies. Specifically, we will review 1) basic aspects of this technique, 2) the most commonly used eye-tracking measures, 3) different eye-tracking paradigms, e.g., the reading paradigm and the visual world paradigm, and 4) examples of studies with different populations. Newer trends in online experimental studies which combine multiple methods (e.g. eye-tracking and EEG) will also be mentioned.

Neuromodulation of Language

Lecturer Christina Manouilidou (University of Ljubljana)
Level Advanced
Class Thursday, slot 4

The course provides an introduction to the field of neuromodulation and its applications in language research and rehabilitation. Students will become familiar with two widely used non-invasive brain stimulation techniques: Transcranial Magnetic Stimulation (TMS) and transcranial Direct Current Stimulation (tDCS). Particular attention will be given to their underlying principles, mechanisms of action, and potential to modulate neural activity and enhance language performance. The course will explore how these techniques are applied to investigate and support language recovery in individuals with acquired neurological disorders, with a particular focus on chronic post-stroke aphasia. It will also examine their emerging therapeutic applications in neurodegenerative conditions, including Primary Progressive Aphasia, and Alzheimer's disease. Through the critical examination of experimental and clinical studies, students will gain insight into the potential benefits, methodological challenges, and limitations of neuromodulation approaches in language rehabilitation. The course will also introduce emerging applications of non-invasive brain stimulation in second language learning, exploring its potential to facilitate language acquisition and enhance learning-related neuroplasticity in healthy adults.

Discourse Analysis in Neurogenic Communication Disorder

Lecturer Anthony Kong (University of Hong Kong)
Level Introductory
Class Friday, slot 2

This course offers an in-depth exploration of discourse production in individuals with acquired neurogenic language disorders. Over the past two decades, significant advancements have been made in understanding the linguistic, cognitive, non-verbal, and social aspects of discourse deficits associated with conditions such as aphasia, traumatic brain injury, and dementia. Participants will gain an overview of common discourse challenges, explore current assessment strategies, and learn about innovative treatment approaches. Emphasizing emerging directions, the workshop will also highlight multi-modal frameworks for discourse rehabilitation and the use of big-data research to inform topic and vocabulary selection in language therapy, thereby enhancing evidence-based discourse analysis and intervention.

Balkan Languages in Experimental Research

Lecturers Seçkin Arslan (University of Côte d'Azur),
Mirjana Mirić (Serbian Academy of Sciences and Arts)
Level Advanced
Class Friday, slot 3

The linguistic diversity and complex contact situations in the Balkans present both opportunities and methodological challenges for experimental research. This course will examine how Balkan languages and varieties can be investigated using approaches from psycholinguistics, neurolinguistics, clinical linguistics, and language acquisition research. Based on a review of the existing literature and a survey of experts on Balkan languages, we will discuss the current state of research, identify understudied populations and linguistic phenomena, and examine barriers to experimental investigation, including limited linguistic resources, dialectal variation, and the lack of standardized assessment instruments. Particular attention will be given to methodological considerations in designing experimental studies and conducting fieldwork in multilingual and underrepresented language communities. The course will highlight how research on Balkan languages can contribute to the development and testing of broader theories of language processing, acquisition, and similar research areas.

Information Theory in Psycholinguistics

Lecturer Dušica Filipović Đurđević (University of Belgrade)
Level Advanced
Class Friday, slot 4

This course will describe the conceptual background of information theory and its application in the study of various language phenomena. At the very start, the basic concepts of information theory will be introduced. Throughout the course, several information theory measures will be explained and illustrated through presentation of published research which demonstrated their effects in language processing at the levels of phonology, morphology, syntax and semantics.