# Morphosyntactic production in adult neurogenic disorders and healthy aging

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### Abstract

In this talk, I will summarize the main findings of my research on the ability of Greek-speaking adults with acquired neurogenic disorders (in particular, individuals with aphasia due to stroke, individuals with dementia of the Alzheimer type, and individuals with multiple sclerosis) and of Greek-speaking neurotypical adults to produce verb-related morphosyntactic categories such as grammatical aspect, tense and subject-verb agreement (e.g., Fyndanis et al., 2012, 2013, 2018, 2020, 2022; Soilemezidi et al., under review). I will also present findings on the role of cognitive capacities (e.g., working memory, short-term memory, processing speed, inhibition), locality, morphosyntactic category and demographic factors in morphosyntactic production. To investigate the role of the above factors in morphosyntactic production, we focused on healthy aging and tested more than 380 neurotypical native speakers of Standard Greek, aged between 19 and 86 years (Fyndanis et al., 2018, 2022; Soilemezidi et al., *under review*). Shedding light on the impact of the above factors on morphosyntactic production is crucial for a deeper understanding of morphosyntactic deficits in individuals with acquired neurogenic disorders. I am looking forward to presenting and discussing the key-findings of our research with you!

# Short Bio

Valantis Fyndanis is a tenure-track Assistant Professor of Psycholinguistics/Neurolinguistics in the Department of Rehabilitation Sciences at the Cyprus University of Technology, Cyprus, and a Researcher at the Department of Linguistics and Scandinavian Studies at the University of Oslo, Norway. Prior to his current appointments, he held a tenure-track Associate Professor position in the Department of Communication Sciences and Disorders at Long Island University, Brooklyn Campus, U.S.A., a Postdoctoral Fellow position at the Center for Multilingualism in Society across the Lifespan (MultiLing), a Marie Curie (Postdoctoral) Fellow position in the Department of Linguistics at the University of Potsdam, Germany, as well as research and teaching positions in Greece and Italy. Moreover, he is a Fellow of the Young Academy of Europe and an Academy of Aphasia Fellow. His areas of expertise are adult language disorders and bilingualism. Specifically, he conducts basic research on: (1) morphosyntactic deficits in stroke-induced aphasia, dementia of the Alzheimer type, and Multiple Sclerosis; (2) the r**elationship between morphosyntactic production and cognitive capacities** such as short-term/working memory and speed of processing; and (3) the **relationship between bilingualism and cognitive capacities such as domain-general executive functions. Currently, Valantis Fyndanis is the Principal Investigator of the FRIPRO project "Machine Learning Aphasia".**