Multilingual Brain and Cognition
Ling 333/372

Summer Semester 2021
Sergio Miguel Pereira Soares, Grazia Di Pisa & Theo Marinis
Tuesdays, 13:30 – 15:00
Room: online on Zoom

COURSE SCHEDULE

Session	Date	Topic
1	13th of April	Introduction to the brain and neurolinguistics
2	20th of April	Introduction to the EEG/ERP methodology
3	27th of April	Introduction to the (f)MRI methodology
4	4th of May	Executive Functions and Bi-/Multilingualism
5	11th of May	Executive Functions and Bi-/Multilingualism
6	18th of May	Multilingualism and Brain Plasticity
7	25th of May	Multilingualism and Brain Plasticity
8	8th of June	Multilingualism and Brain Processing
9	15th of June	Guest Lecturers (Maki Kubota, Toms Voits, Maren Eikerling)
	22nd of June	Reading Week*
10	29th of June	Multilingualism and Brain Processing
11	6th of July	Workshop: designing an EEG or (f)MRI experiment
12	13th of July	Multilingualism and the developing brain
13	20th of July	Final Lecture

Key Books:
Schwieter, J. W. (Ed.). (2019). The Handbook of the Neuroscience of Multilingualism. Wiley Blackwell.
Schwieter, J. W. (Ed.). (2016). Cognitive control and consequences of multilingualism (Vol. 2). John Benjamins Publishing Company.

Paper presentations:

Executive Functions and Bi-/Multilingualism (4th of May)
Grundy, J. G. (2020). The effects of bilingualism on executive functions: an updated quantitative analysis. *Journal of Cultural Cognitive Science*, 1-23.

Executive Functions and Bi-/Multilingualism (11th of May)
Wu, Y. J., & Thierry, G. (2013). Fast modulation of executive function by language context in bilinguals. *Journal of Neuroscience*, *33*(33), 13533-13537.

Multilingualism and Brain Plasticity (18th of May)
Abutalebi, J., & Green, D. W. (2016). Neuroimaging of language control in bilinguals: neural adaptation and reserve. *Bilingualism: Language and cognition*, *19*(4), 689-698.

Multilingualism and Brain Plasticity (25th of May)

DeLuca, V., Rothman, J., Bialystok, E., & Pliatsikas, C. (2019). Redefining bilingualism as a spectrum of experiences that differentially affects brain structure and function. *Proceedings of the National Academy of Sciences*, *116*(15), 7565-7574.

Multilingualism and Brain Processing (8th of June)

Steinhauer, K. (2014). Event-related potentials (ERPs) in second language research: A brief introduction to the technique, a selected review, and an invitation to reconsider critical periods in L2. *Applied Linguistics*, *35*(4), 393-417.

Multilingualism and Brain Processing (29th of June)

Ma, F., Chen, P., Guo, T., & Kroll, J. F. (2017). When late second language learners access the meaning of L2 words: Using ERPs to investigate the role of the L1 translation equivalent. *Journal of Neurolinguistics*, *41*, 50-69.

Multilingualism and the developing brain (13th of July)

Kuhl, P., & Rivera-Gaxiola, M. (2008). Neural substrates of language acquisition. *Annu. Rev. Neurosci.*, *31*, 511-534.

or

Voits, T., Robson, H., Rothman, J., & Pliatsikas, C. (2020). The effects of bilingualism on the structure of the hippocampus and on memory performance in aging bilinguals.