



**COGNITIVE  
PSYCHOLOGY**  
DEPARTMENT

Hungary, 1064 Budapest, Izabella utca 46.

# Specialisations and Research Topics in Cognitive Sciences at **ELTE Budapest**

Ildikó Király



**ELTE**



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## ***Briefly about ELTE***

- ***Eötvös Loránd University*** -ELTE the longest continuously serving university of Hungary
- With a growing reputation for research and innovation
- offers its diverse student population high quality education and research.



**ELTE**

# ***Cognitive Science Program***

As this is collaborative Masters Program with the contribution of several Faculties and disciplines,

It offers research specialisations from diverse fields of scientific research:

- Philosophy of Science – *Research team lead by **George Kampis***
- Cognitive neuroscience - *Cognitive Neuroscience and Space Research Group lead by **István Czigler***
- Comparative Cognition - lead by **Ádám Miklósi**
- Human Ethology – lead by **József Topál**
- Cognitive Psychology – *Numerical Cognition, **Attila Krajcsi** and Social Minds Research groups - **Ildikó Király, Categorisation, Anett Ragó***
- **Grid Cells and Spatial cognition – Zoltán Nádasdy**



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# Philosophy and sociology of Science



- The research group of **George Kampis** has recently turned to hard methods in the philosophy and sociology of science.
- Data mining and data analysis to uncover patterns of development in scientific fields at research universities
- develop tools for the analysis and presentation of scientometric data.
- A recent work is about social cognitive mechanisms in universities: "Do institutions think? A study of excellence and its effect on scientific development"



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# Cognitive Neuroscience

István Czigler, Ferenc Honbolygó and Anett Ragó

- The cognitive neuroscience specialization offers investigation of electrophysiological and functional changes
- together with behavioral correlates of perceptual and cognitive abilities
- The cognitive developmental specialization investigates the underlying neural mechanisms of the development of cognition and social learning.



# Comparative Behavioural Research Group & Family Dog Project

Comparative analysis of social cognition in dogs and humans: a multi-level approach;

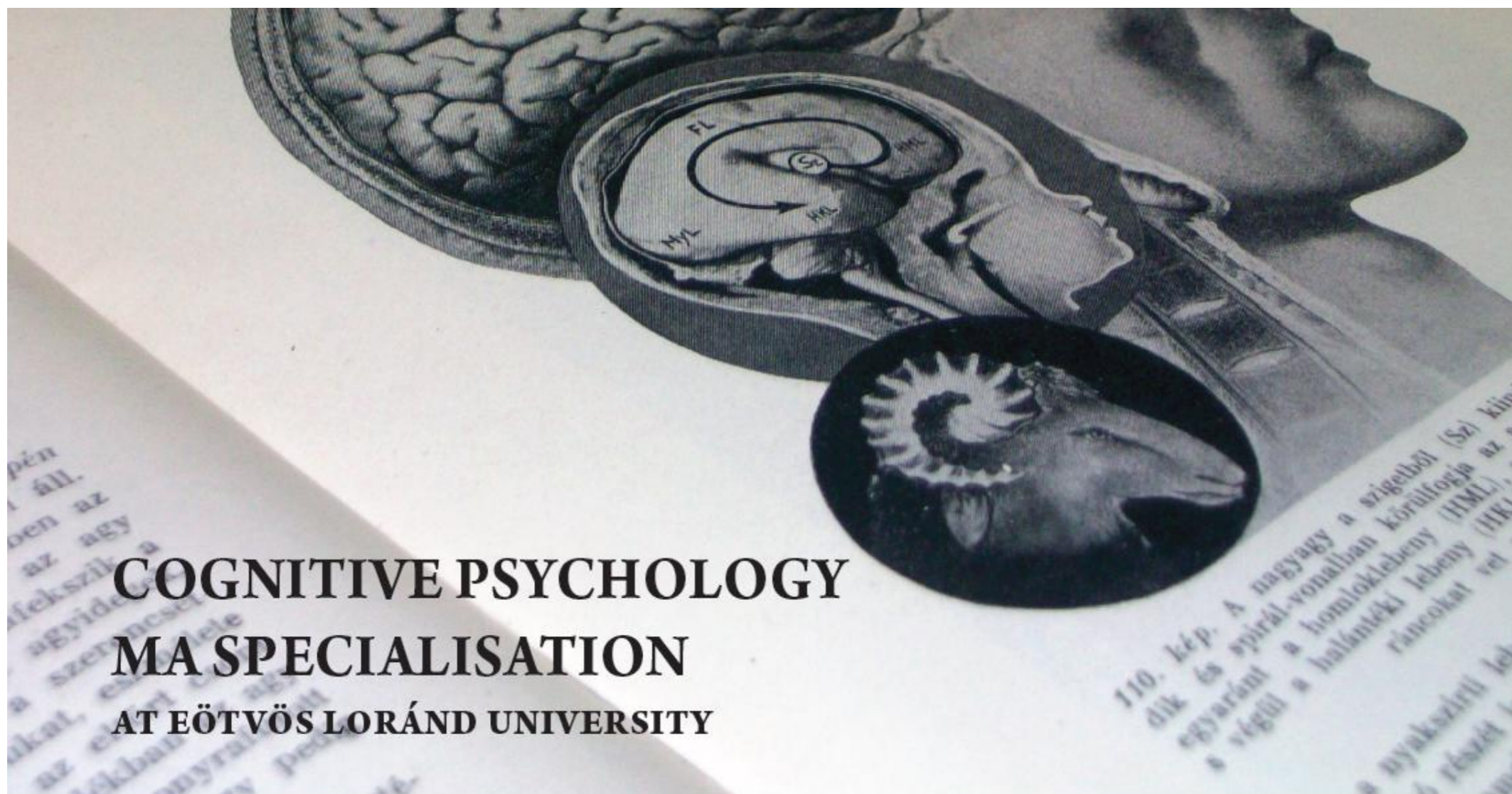
*Family Dog Project* aims to study human-dog interaction from an ethological perspective: domestication of dogs resulted in a unique relationship with humans because of adjustments to human social environment



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MA SPECIALISATION  
AT EÖTVÖS LORÁND UNIVERSITY**



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## Ildikó Király, Kata Egyed

- study of social cognitive processes and their development
- the emergence of episodic and autobiographical memory, the role of imitation in social learning, the development of theory of mind and its relation to other high level cognitive processes







# MATHEMATICAL COGNITION RESEARCH GROUP



Attila Krajcsi

- The role of number notations in numerical processing
- Negative numbers
- The development of counting abilities



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# Human Electrophysiology Research Group

Nádasdy Zoltán-

- Gamma phase code for faster encoding and decoding of information
- Grid cells and spatial navigation



## Our Collaborative Partners in Research



- CEU IAS
- CEU Cognitive Science Department

- Hungarian Academy of Sciences



Thank You!



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