Offer of topics for Ph.D. study projects in Third Faculty of Medicine, Charles University in Prague

Project:	Spatial processing in the dorsal and ventral visual stream of the human brain
Mentor (Advisor):	Mgr. Kamil Vlček, PhD.
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Project Narrative: (max.	While the dorsal stream processes mainly the spatial
500 characters including	information, the ventral stream is focused on object
spaces):	recognition. They probably converge in the temporal lobe,
	enabling the emergence of the spatial representation
	containing orientation marks. The intracranial recordings will
	be obtained using these tests in epileptic patients. The aim is to
	determine the time windows of activation and synchronization
	of these brain areas with high time resolution.
Requirements for student	The data will by analyzes in Matlab environment , using both
applicants: (specify your	available libraries and self-made scripts. Therefore at least
requirements such as degrees	basic knowledge of Matlab environment and programming
or period after degree was	skills are necessary. Appropriate is interest in cognitive
granted)	psychology research and MSc degree or equivalent in cognitive
	psychology, neuroscience, complex systems or related fields.