

Załącznik nr 1
do uchwały nr 28/2023 Rady Dydaktycznej dla kierunków studiów kognitywistyka i
kognitywistyka (Cognitive Science)
z dnia 10 października 2023 r.
w sprawie zatwierdzenia tematów i opiekunów prac dyplomowych na kierunku
Cognitive Science

TEMATY I OPIEKUNOWIE PRAC DYPLOMOWYCH NA KIERUNKU COGNITIVE SCIENCE

Full name	Topic	Research area 1	Research area 2	Supervisor	Internal supervisor
Julia Kuczmierowska	A comparative investigation of working memory in domestic chick (<i>Gallus gallus</i>) and black garden ant (<i>Lasius niger</i>)	animal psychology	comparative cognition	prof. Lucia Regolin	dr Anna Reinholz
Tymon Rochowski	Studying reversed operational momentum using inhibition of return task	cognitive psychology	formal models of cognition	prof. Maciej Haman	
Jan Skorupski	Verification of a novel neurofeedback protocol on adults with a sham control group	neuropsychology	statistics	dr Jacek Rogala	
Wiktoria Ogonowska	Brain mechanisms related to semantic integration in adults	cognitive neuroscience	signal analysis	dr Anna Duszyk-Bogorodzka, dr Itziar Lozano Sanchez	
Iga Pawłowska	Study of transmission patterns of the electrical activity in the brain during processing emotional stimuli	neuroinformatics	psychology of emotions	dr hab. Maciej Kamiński	
Magdalena Rajtor	Cross-lingual emotion analysis using large language models	linguistic engineering	artificial intelligence	dr Łukasz Kobyliński	dr Julian Zubek

Adam Kwiatkowski	Using Large Language Model to detect emotions carried by text	natural language processing	psychology of emotions	dr Adam Zadrożny	dr Grzegorz Krajewski
Wiktoria Zamęcka	Microsoft Kinect V2 Data Analysis in adults with ASD	Autism Spectrum Disorder (ASD) Research	Human-Computer Interaction (HCI)	dr Agnieszka Pluta	
Agata Modzelewska	The link between language-switching ability and exposure to multilingual content through social media and Duolingo	Psycholinguistics	Cognitive psychology	dr Kalinka Timmer	
Konrad Łyda	User Interface Design of research mobile apps: an analysis of user activity data	User Experience	Cognitive psychology	dr Karolina Muszyńska, dr Grzegorz Krajewski	
Natalia Falkiewicz	Theta band oscillatory changes during semantic integration processing in 18- and 24- month old children	EEG data analysis	Language Development	dr Anna Duszyk-Bogorodzka, dr Itziar Lozano Sanchez	
Daniel Gruszka	Bayesian hierarchical model of moral judgments	Neuroethics	Machine Learning	dr Julian Zubek	
Fernando Garcia Hipola	Predicting Emotional Valence: Exploring Dynamic Patterns in Human Behavior	Psychology of Emotions	Data Science	dr Julian Zubek	
Sofija Krivokapić	Category Fluency Task: Semantic analysis	Cognitive Psychology	Data Science	dr Marcin Leśniak	
Anna Sazonov	Emotional Stroop Task: measuring emotional load of language in Russian-Ukrainian bilinguals	Psycholinguistics	Cognition/Cognitive processes	dr Kalinka Timmer	
Sathyakumar Nandakumar	Emergence of Language in Cognitive Robots	Artificial Intelligence	Computational Cognitive science	prof. Joanna Raczaszek Leonardi	
Jakub Strebeyko	Monitoring media channels using Large Language Models	Natural Language Processing	Journalism, Political and Social Science	dr Adam Zadrożny	dr Grzegorz Krajewski

Adrianna Wojdat	Examining the influence of facial expressions and gestures on prosody perception - a study on communication mediated by electro larynx	cognitive science, psychology of language, perception	ethnography, qualitative research	prof. Joanna Raczaszek Leonardi	
Monika Ogrodnik	Procrastination and time perspective: in search for common neural basis	cognitive psychology	behavioral neuroscience	prof. Maciej Stolarski	
Elif Gülgeç	Mimicking arbitrary and conversational language cues during speech production	Bilingualism	Acoustic Analysis	dr Kalinka Timmer	
Jan Szpakowski	Segmentation of media topic coverage using Large Language Models	duże modele językowe, badanie mediów, big data		dr Adam Zadrożny	dr Grzegorz Krajewski
Arkadiusz Grochowski	Differences in music perception between AI-Generated Music and Human Voice- Generated Music	psychology of music	Artificial Intelligence	dr Agnieszka Pluta	
Michał Bachanek	Conceptualizing abnormal types of curiosity and curiosity-lead behavior	cognitive psychology	experimental philosophy	dr Bartosz Maćkiewicz	
Shahina Ozirova	The effect of war on language perception	Psycholinguistics	Cognitive Psychology	dr Kalinka Timmer	
Anirban Bhattacharya	Number-Space Interaction: SNARC effect in the vertical and horizontal axis explored with EEG informed fNIRS	Neuroscience - neuroimaging	Cognitive psychology - Numerical cognition	prof. Maciej Haman	
Ruben Alexandre Castro	Characteristic of persistently active neurons in the human Medial Temporal Lobe during Working Memory maintenance	Cognitive Neuroscience	Single-cell recordings	dr Jan Kamiński	dr Agnieszka Pluta
Michał Weiss	Quantitative Assessment of Individuality in Cellular Automata	Computational Intelligence	Complex Systems	prof. Joanna Raczaszek Leonardi	
Agata Barejka	Gender differences in early mother-infant interaction - semantic analysis	caregiver-infant interactions	semantic analysis	prof. Joanna Raczaszek Leonardi	

Magdalena Wyganowska	Grayscale mode and user behaviour: analysis of the impact of display settings on smartphone usage and user anxiety	cognitive psychology	User experience	dr Marcin Leśniak	
Aleksander Leczkowski	The role of world knowledge in Quantifier Scope Disambiguation: a corpus-based approach	Linguistics	Informatics	dr.hab. Justyna Grudzińska-Zawadowska	