Bartłomiej Kroczek Data Scientist. PhD Student.

Krakow CogSciLab | Interational PhD programme in Cognitive Neuroscience.

Currently	Working on my PhD dissertation: Relationships between rhythmic eye movements and oscillatory brain activity.		
Specialized in	Statistical Analysis. Eye Tracking. Time series analysis in application to neuroscience.		
Research interests	Cognitive Neuroscience. Psychophysics. Visual Attention.		
Education	PhD in Cognitive Neuroscience, Jagiellonian University, tobe Kraków, Poland.	r 2019 - no	WC
	MS in Computer Science (Modeling, Cognition and Control), Jagiellonian University, Kraków, Poland.	2015 - 201	19
	BSc in Computer Science (Modeling, Cognition and Control), Jagiellonian University, Kraków, Poland.	2011 - 201	15
Grants	Founded by National Science Centre grant awarded to prof. A. Chuderski "Visual working memory mechanisms" (OPUS9). Position: Data Scientist	2016 - no	DW
	Funded by National Science Centre grant to prof. A. Chuderski: The role of binding mechanism and integration of relational structures in the process of abstract thinking and reasoning: psychometric, behavioral, oculographic and spectroscopic studies. Position: Data Scientist	2014 - no	ЭW
	EEG study. Founded by National Science Centre grant awarded to dr. M. Senderecka: "Influence of emotions on perception, response inhibition, and error monitoring: ERP analysis (2016-2019). Position: Research Assistant	2016 - 201	18
	Funded by National Science Centre grant awarded to prof. A. Chuderski: Chasing the homunculus of self-control: Mechanisms of goal selection and application (2011-2016). Position: Research Assistant	2013 - 201	16
	Founded by National Science Centre grant awarded to dr. M. Senderecka "Electrophysiological correlations of the reaction inhibition process. The research in the signal STOP task paradigm". Position: Research Assistant	2013 - 201	14
Publications			

Why People Err on Multiple-choice Analogical Reasoning Tests? Kroczek, B & Chuderski, A, Conference Paper: Annual

Meeting of the Cognitive Science Society

Socially induced negative emotions elicit neural activity

in the mentalizing network in a subsequent inhibitory task Senderecka, M, Matyjek, M, Kroczek, B, & Ociepka, M,

Journals

Neuroscience

2021

2021

Socially induced negative affective knowledge modulates early face perception but not gaze cueing of attention Matyjek, M, Kroczek, B, & Senderecka, M, Psychophysiology	2021
Galton and Spearman revisited: Can single general	2020
discrimination ability drive performance on diverse	
sensorimotor tasks and explain intelligence? Jastrzębski, J,	
Kroczek, B, & Chuderski, A Journal of Experimental Psychology: General	
Metacognitive experience on Raven's matrices	2020
versusinsight problems Chuderski, A, Jastrzębski, J, Kroczek,	
B, Kucwaj, H, and Ociepka, M Metacognition and Learning	
Delta-gamma coupling as a potential neurophysiological	2018
mechanism of fluid intelligences Gągol, A, Magnuski, M,	
Kroczek, B, Kałamała, P, Ociepka, M, Santarnecchi, E, and	
Chuderski, A Intelligence	
Post-Error Brain Activity Correlates with Incidental	2018
Memory for Negative Words Senderecka, M, Ociepka, M,	
Matyjek, M, and Kroczek, B Frontiers in Human Neuroscience	
Short-Duration Affective States Induced by Emotional	2018
Words Improve Response Inhibition: An Event-Related	
Potential Study Senderecka, M, Ociepka, M, Matyjek, M, and	
Kroczek, B Neuroergonomics	
ERP correlates of the conflict level in the multi-response	2016
Stroop tasks Chuderski, A, Senderecka, M, Kałamała, Pa,	
Kroczek, B, and Ociepka, M Brain research	
No Spearman's Law of Diminishing Returns for the	2016
working memory and intelligence relationships Kroczek, B,	
Ociepka, M, and Chuderski, A Polish Psychological Bulletin	

Occupation

CogSciLab, Jagiellonian University, Kraków, Poland.

2013 - now

Research Assistant Data Scientist