Bartłomiej Kroczek Data Scientist. PhD Student.

Krakow CogSciLab | Interational PhD programme in Cognitive Neuroscience.

Currently	Working on my PhD dissertation: Does attention in perceptual tasks change over time? .	
Specialized in	Statistical Analysis. Eye Tracking. Time series analysis in application to neuroscience.	
esearch interests	Cognitive Neuroscience. Psychophysics. Visual Attention. Decision Making.	
Education	PhD in Cognitive Neuroscience, Jagiellonian University, Oct Kraków, Poland.	2019 - now
	MS in Computer Science (Modeling, Cognition and Control), Jagiellonian University, Kraków, Poland.	2015 - 2019
		2011 - 2015
Grants	Founded by National Science Centre grant awarded to prof. A. Chuderski "Visual working memory mechanisms" (OPUS9). Position: Data Scientist	2016 - now
	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 - now
	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 - 2018
	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 - 2016
	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 - 2014

Publications

JournalsUncovering the course of analogical mapping using eye
tracking Kroczek, B, Ciechanowska, I, & Chuderski, A, Cognition2022Socially induced negative emotions elicit neural activity
in the mentalizing network in a subsequent inhibitory
task Senderecka, M, Matyjek, M, Kroczek, B, & Ociepka, M,
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early face perception but not gaze cueing of attention Matyjek, M, Kroczek, B, & Senderecka, M, Psychophysiology	
Galton and Spearman revisited: Can single general	
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 versusinsight problems Chuderski, A, Jastrzębski, J, Kroczek, B, Kucwaj, H, and Ociepka, M Metacognition and Learning	
Delta-gamma coupling as a potential neurophysiological 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 Memory for Negative Words Senderecka, M, Ociepka, M, Matyjek, M, and Kroczek, B Frontiers in Human Neuroscience	
Short-Duration Affective States Induced by Emotional 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 Stroop tasks Chuderski, A, Senderecka, M, Kałamała, Pa, Kroczek, B, and Ociepka, M Brain research	
No Spearman's Law of Diminishing Returns for the 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	