Mikolaj Buchwald, PhD

RESEARCH SCIENTIST
PYTHON AI DEVELOPER

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Los Angeles, CA, USA

Personal Bio

I focus on applied sciences, especially in the area of medicine and psychophysiology. Currently I am a visiting AI researcher at Cedars-Sinai Medical Center in Los Angeles, CA, with my Polish affiliation being Poznan Supercomputing and Networking Center, PAS.

Work Summary

Visiting Postdoctoral Scientist

Cedars-Sinai Medical Center
Los Angeles, CA, USA
Department of Artificial Intelligence in Medicine
October 2023 - present

- Developing AI models for cardiological and radiological sciences
- Deep learning, XGBoost, quantitative medicine, advanced visualization

Postdoctoral Research Specialist

Poznan Supercomputing and Networking Center, Poland
June 2018 - present

- Psychophysiological models for scientific and commercial projects
- R&D Horizon European Commission projects

Graphic designer

ProMedia Sp. z o.o. (LLC)
November 2011 - August 2012

- Preparing marketing materials and logotypes in Corel and Adobe graphics suites

Specialization

- Biomedical data: functional magnetic resonance imaging (fMRI), computed tomography (CT), electroencephalography (EEG), and galvanic skin response (GSR/EDA)
- Technologies: Python, PyTorch, Django, R, Java, Spring, Git, JIRA, Confluence, OpenStack

Education

Adam Mickiewicz University in Poznan, Poland

PhD in Cognitive Neuroscience
October 2017 - November 2021

- Thesis: *Neural representations of planning bimanual grasps of functional objects*
  - Brain function lateralization
  - Neuropsychology
- Head of the PhD Student Council at AMU (2019-2020)

MS in Cognitive Science
October 2012 - June 2017

- Thesis: *Multivariate analysis of functional magnetic resonance data*
  - Graduated with thesis distinguished
- Head of Student Research Group at Institute of Psychology, AMU

Publications

Buchwald, Przybylski, & Króliczak (2018)
Decoding Brain States for Planning Functional Grasps of Tools: A Functional Magnetic Reso-nance Imaging Multivoxel Pattern Analysis Study.
Journal of the International Neuropsychological Society
Cambridge University Press

Behnke, Buchwald, et al. (2022)
Psychophysiology of positive and negative emotions, dataset of 1157 cases and 8 biosignals
Scientific Data, Nature Publishing Group

Kroliczak, Buchwald, et al. (2021)
Manual praxis and language-production networks, and their links to handedness.
Cortex, Elsevier

More about me

Personal website:
mikolajbuchwald.com

Blog:
mindyourdata.org

Accounts at:
Google Scholar
StackOverflow/StackExchange
ResearchGate
LinkedIn

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