

## Curriculum Vitae

### Personal information



#### Mohamed Aly

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**Date of birth** 6 Jun 1989 | **Nationality** Egyptian

**Languages** English - Arabic

### Education

Oct 2017– Sep 2020

Doctor of Philosophy, Doctoral Program in Graduate School of Human and Socio-Environmental Studies, Kanazawa University, Japan

Sep 2011 – Dec 2013

Master of Science, Master's program in Sport Psychology and Education sciences, Faculty of Physical Education, Assiut University, Egypt

Sep 2006 – Jun 2010

Bachelor of Physical Education, Faculty of Physical Education, Assiut University, Egypt

### Academic Experience

August 2022 – Till now

Post-Doctoral Researcher, Egypt-Japan Education Partnership (EJEP), Faculty of Liberal Arts and Sciences, Chukyo University

02 – 25 July 2022

Research Internship – Staff Exchange, Institute of Sport and Sport Science, Karlsruhe Institute of Technology (KIT), Germany

May 2021 – July 2022

Assistant Professor, Faculty of Physical Education, Assiut University, Egypt

Oct 2020 – Mar 2021

Visiting Researcher, Graduate school of Human and Socio-Environmental Studies, Kanazawa, Japan

Dec 2018 – Mar 2019

Teaching Assistant, School of Human and Socio-Environmental Studies, Kanazawa, Japan

Feb 2014 – Sep 2017

Assistant Lecturer, Department of Sport Psychology and Education sciences, Faculty of Physical Education, Assiut University, Egypt

Feb 2011 – Jan 2014

Demonstrator, Department of Sport Psychology and Education sciences, Faculty of Physical Education, Assiut University, Egypt

### Research Interests

My primary research interest is in the area of exercise and neurocognitive science, investigating the relation between health-oriented behaviors and cognitive function; and the application of these behaviors as a mean for improving cognitive health, academic performance, and overall effective functioning. My examination of these relationships during my doctoral study has utilized both behavioral and neuroelectrical measures to focus on the influence of acute as well as long-term exercise. Given the significance of maintaining a healthy brain across the life span, my future research will continue to examine how exercise and novel brain stimulation techniques modulate neural networks underlying aspects of executive and social cognition.

### Publications

- Aly, M., Ogasawara, T., Kamijo K., & Kojima, H., (2022). Neurophysiological evidence of the transient beneficial effects of a brief mindfulness exercise on cognitive processing in young adults: An ERP study. *Mindfulness*, (Under review).
- Aly, M., & Kojima, H. (2020). Acute moderate-intensity exercise generally enhances cognitive control in young adults: A randomized controlled ERP study. *Mental Health and Physical Activity*, 100363.

- Aly, M., & Kojima, H. (2020). Relationship of regular physical activity with neuroelectric indices of interference processing in young adults. *Psychophysiology*, e13674.
- Aly, M., A. Ahmed, M., Hasan, A., Kojima, H., & R. Abdelhakem, A. (2019). Sport experience and physical activity: Event-related brain potential and task performance indices of attention in young adults. *Journal of Functional Morphology and Kinesiology*, 4(2), 33.
- Aly, M., & Kojima, H. (2019). The effects of physical activity and fitness on cognitive performance: Current status and future prospects. *Human and Socio-Environmental Studies*, 37, 55-72.

## Conferences

- 13 Oct 2021 *Exercise and Cognitive Functioning*, The 1<sup>st</sup> International Congress of Sport Science & Technology, Egypt (Keynote speaker)
- 5 Mar 2021 *Exercise and Cognition: Evidence for Improved Cognitive Performance in Young Adults*, The 10<sup>th</sup> Kanazawa University Cognitive Science Symposium, Japan (Invited speaker)
- 2-5 Nov 2020 *Physical Activity and Cognitive Processing: Event-Related Brain Potential Examinations*, Digital DAAD Conference, Karlsruhe Institute of Technology (KIT), Institute of Sport Science, Germany (Keynote speaker)
- 8-22 Sep 2020 Yokohama Sport Conference, Japan (Attendee)
- 8 Dec 2019 *A randomized Controlled ERP Study of the Effects of Acute Aerobic Exercise on Cognition in Young Adults: General or Specific Cognitive Improvement?*, The 54<sup>th</sup> Annual Meeting of the Hokuriku Psychological Association, Japan (Oral Presentation)
- 15 Oct 2019 *Acute Effects of Aerobic Exercise on Cognitive Performance of Flanker Task in Young Adults*, St Petersburg University-Kanazawa University Joint Symposium on Psychology, Japan (Poster Presentation)
- 27 Sep 2018 *The Relation of Physical Activity to Neuroelectric Indices of Interference Processing in Young Adults*, The 25<sup>th</sup> Research Meeting of Graduate school of human and socio-environmental studies, Japan (Oral Presentation)
- 5 Oct 2018 *The Effects of Physical Activity and Fitness on Cognitive Performance: Current Status and Future Prospects*, 24<sup>th</sup> research meeting of Graduate school of human and socio-environmental studies, Japan (Oral Presentation)
- 4 Mar 2017 P300 Auditory–Evoked Potentials, Visual Reaction Time and Anxiety Level for Swimmers, Karate players and Non-athletes, Otto von Guericke University-Assiut University joint symposium, Egypt (Oral Presentation)
- 3 Nov 2016 *Satisfaction Indicator for the Ministry of Youth and Sport in Upper Egypt Governorates*, International Conference of Sports Science and Sport as a Regular Component of Lifestyle, Egypt (Oral Presentation)
- 18 Oct 2015 EEG and Sport Science, Faculty of Physical Education Symposium, Assiut University, Egypt (Oral Presentation)

## Laboratory software

- EEG/ERPLAB
- E-prime
- SuperLab

- SPSS
- Adobe Illustrator

### Academic Societies

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- American Psychological Association (APA)
- Society for Psychophysiological Research
- Hokuriku Psychological Society of Japan
- Egyptian Sports Sociology Association

### Peer reviewer

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- American Journal of Preventive Medicine
- Frontiers in Neuroscience
- Frontiers in Cognition
- Integrative Neuroscience
- PLOS ONE
- Topic coordinator in Frontiers in Physiology

### Scientific Projects

April 2022 – March 2025

Title	Funding Agency
<ul style="list-style-type: none"> <li>▪ Understanding consumer food choices and promotion of healthy and sustainable Mediterranean diets and lifestyles in Children through behavioural changes actions (DELICIOUS)</li> <li>▪ Grant Agreement No. 2131</li> <li>▪ PI: Osama Abdelkarim</li> <li>▪ CO-PI: Mohamed Aly</li> </ul>	<ul style="list-style-type: none"> <li>▪ A part of the PRIMA programme supported by the European Union (EU)</li> <li>▪ Collaboration between Spain, Italy, Lebanon, Portugal, and Egypt</li> </ul>

### Honors & Awards

Aug 2022 – Jan 2023

Post-doc Fellowship, EJEP – JICA

Aug 2021

International Publication Award, Faculty of Physical Education, Assiut University

Aug 2021

Scientific Excellence Award, Faculty of Physical Education, Assiut University

Oct 2017 – Sept 2020

PhD Scholarship, EJEP – JICA

Feb 2016 – Nov 2016

Presidential Leadership Program (PLP), Presidency of the Arab Republic of Egypt