

MOHAMMED ELGAMMAL

+201000020337
maelgammal@fopem.zu.edu.eg

Faculty of Physical Education, Zagazig
University, Zagazig, Egypt

EDUCATION

- PhD** Zagazig University, Physical Education February 2014
Dissertation: "Development Three Point Shoot Related to
Some Biomechanical Indicators in Basketball Players"
Committee: Mohamed Ali, Professor (chair), Nabil Abd
Elmaksod, Professor
- MSc** Zagazig University, Physical Education March 2009
Thesis: "Performances exercise effective of Kinetic
Complex on development of some physical & skillful
variables to the junior of basketball"
Advisor: Walid Mostafa, Professor
- BSc** Zagazig University, Physical Education May 2004
Graduated Magna Cum Laude
Minored in Basketball, Swimming

HONOURS AND AWARDS

- ZAGAZIG UNIVERSITY ENCOURAGEMENT AWARD** 2018
Majoring (PEDAGOGICAL & HUMANITIES) for the academic year
2017/2018, Amount of 10000 EGP.
- Visiting Scholar** 2016
Biomechanics Lab, Faculty of Arts & Science, University of Lethbridge, Alberta,
Canada, Amount of 15000 CAD.

RESEARCH EXPERIENCE

Dissertation\ Development Three Point Shoot Related to Some Biomechanical Indicators in Basketball Players, Faculty of Physical Education for 'male', Zagazig University, Egypt 2014
Supervisor: Mohamed Ali, Professor

- Simi motion system with force plates and testing using COSMED Srl – Italy, Quark CPET and EMG

Faculty of Arts & Science, University of Lethbridge, Lethbridge, Canada
2016 to 2017

Visiting Scholar, Dr. Gongbing Shan, Professor, Director of Biomechanics lab

- VICON capture motion system including experience with force plates
- Project “Full biomechanical analysis of lay-up shoot in basketball”

Faculty of physical education, Zagazig University, Zagazig, Egypt 2004 to 2021

Instructor to Associate Professor, Sport Research & Consultation Centre

- Project/ Development Three Point Shoot Related to Some Biomechanical Indicators in Basketball Players
- Working with Simi motion system with force plates and testing using COSMED Srl – Italy, Quark CPET and EMG

TEACHING EXPERIENCE

Zagazig University, Zagazig March 2019 to Onwards
Associate Professor, Department of Theories and Applications of Team Sports

- Taught basketball, an undergraduate course averaging 1100 students per semester.
- Taught sports biomechanics, an undergraduate course averaging 120 students per semester.
- Taught sport training, an undergraduate course averaging 120 students per semester.
- Developed quizzes, exams, and homework
- Revised the syllabus to meet accreditation standards
- Coordinated grading and labs with a team of 4 teaching assistants

Zagazig University, Zagazig February 2014 to March 2019
Assistant Professor, Department of Theories and Applications of Team Sports

- Taught basketball, an undergraduate course averaging 1100 students per semester.
- Taught sports biomechanics, an undergraduate course averaging 120 students per semester.
- Taught sport training, an undergraduate course averaging 120 students per semester.
- Developed quizzes, exams, and homework
- Revised the syllabus to meet accreditation standards
- Coordinated grading and labs with a team of 4 teaching assistants

Masters Students Advised

Ahmed Abd Allah, “The effect of educational program with six hats method on aspects of cognitive and skillful learning of some offensive and defensive skills in basketball beginners”, 2021

Amir Moheb, “The effects of cross training on movement’s abilities development and fast break in basketball”, 2016

Zagazig University, Zagazig

April 2009 to February 2014

Teaching Assistant, Department of Theories and Applications of Team Sports

- Teaching basketball, research, Laboratory ((Sport Research & Consultation Centre)

OTHER WORK EXPERIENCE

Visiting Assistant Professor, Faculty of physical education, Suez Canal University-
Ismailia, Egypt September 2017 to January 2018

- Teaching basketball

Visiting Assistant Professor, Higher Technological Institute, 10th of Ramadan City,
Egypt February 2014 to January 2016

- Teaching biomechanics, sport physiology, sport engineering

Visiting Scholar, Biomechanics Lab, Faculty of Arts & Science, University of
Lethbridge, Alberta, Canada September 2016 to February 2017

- Research

Visiting Assistant Professor, Faculty of physical education, South Valley
University-Qena, Egypt September 2015 to January 2016

- Teaching basics of basketball, basketball teaching methods

Instructor, Faculty of physical education, Zagazig University, Zagazig, Egypt
August 2004 to April 2009

- Teaching basketball, research (Sport Research & Consultation Centre)

PUBLICATIONS

H-index: 1

Google, Scopus.

Journal Publications

- 1) Elgammal, M., Radwan, N. (2022). The Effect of Unified and Multi Direction Training on Physical Abilities in Basketball. *International Journal of Human Movement and Sports Sciences*, 10(6), 1158-1162. DOI: 10.13189/saj.2022.100605.
- 2) Mohammed Elgammal, Ibrahim Hassan, Nagla Eltanahi, Heba Ibrahim (2020). The Effects of Repeated Sprint Training with Blood Flow Restriction on Strength, Anaerobic and Aerobic Performance in Basketball. *International Journal of Human Movement and Sports Sciences*, 8(6), 462 - 468. DOI: 10.13189/saj.2020.080619.
- 3) Mohammed Elgammal, Mohamed Elbadry (2020): effect of concurrent training on physical, offensive and defensive variables in basketball, *International*

- Journal of Sport Science & Arts, 38, (38). (In Arabic) DOI: 10.21608/ijssaa.2020.43288.1331.
- 4) Mohammed Elgammal, Khalid Ahmed (2018): Effect of plyometric training with blood flow restriction on physical variables and shooting in basketball, International Journal of Physical Education & Sport, faculty of physical education, Helwan University, Egypt, 65: 24-56. (In Arabic)
 - 5) Ibrahim H I H, Mohammed A E. (2018): Common Injuries in Racket Sports: A Mini Review, Orthoplastic Surgery & Orthopedic Care International Journal. 1(4). 2/3 OOIJ.000519.2018.
 - 6) Mohammed A. Elgammal (2017): a comparative study of lower limb mechanics during layup shoot in basketball, education research Journal, faculty of physical education, Zagazig University, Egypt, 23: 12-34. (In Arabic)
 - 7) Mohammed Elgammal, Khalid Elsideq (2017): Variation of physiological responses during match quarters according to playing positions in basketball, International Journal of Sport Science & Arts, Issue (February), no. code (109). (In Arabic)
 - 8) Mohammed A. Elgammal (2016): Ball possessions, offensive and defensive efficiency related to final outcome of junior world basketball championship matches (Greece 2015), International Journal of Sport Science & Arts, Issue (June), no. code (306).
 - 9) M. A. Elgammal (2016): Comparison of Small-Sided Game Training Versus Regular Basketball Training in Physical and Technical Skills in Basketball, Research Quarterly for Exercise and Sport, 87:sup2, S66, DOI: 10.1080/02701367.2016.1217725
 - 10) Mohammed A. Elgammal (2015): Improving of Repeated Sprint Ability and Maximal Oxygen Uptake in Youth Basketball, education research Journal, faculty of physical education, Zagazig University, Egypt, 45: 25-47. (In Arabic)
 - 11) Mohamed Ali, Mohammed A. Elgammal (2014): Identifying the most important biomechanical characteristics for three point jump shoot in basketball, theories and applications Journal, faculty of physical education, Alexandria University, Egypt, 79: 111-140. (In Arabic)
 - 12) Meleige M., Elgammal M. (2009): Tracking Speed and accuracy of performance by building a motor schema for layup shoot in basketball, the 3rd scientific international conference at faculty of physical education for 'male' – Zagazig University from 4-5 March 2009 (Investment Towards a better Egyptian and Arab Sports). (In Arabic)
 - 13) Mohammed A. Elgammal (2008): The ancient Egyptian sports during the Pharaoh dynasties and its relation to the ancient Greek sports, 16th INTERNATIONAL seminar on olympic studies for postgraduate students 1-30 JULY 2008.

Journal Papers in Review

Mohammed Elgammal, Naglaa Radwan, "Effects of Slackline Training on Sprint, Agility and Performance in Basketball Players," Submitted to: International Journal of Human Movement and Sports Sciences.

PRESENTATIONS AND INVITED LECTURES

Workshop, "International Cooperation & Partnership Prospective between Karlsruhe Institute of Technology and Zagazig University," Physical Activity and Health: Challenges from an Intercultural Perspective, July 3rd – 7th, Cairo, Egypt.

DAAD project: contact person and project coordinator at Zagazig University of project titled :An Ecosystem for Promoting Health-related PA in Intercultural Dialog, Collaborative project with (Project Manager) Prof. Dr. Klaus Boes, Karlsruhe Institute of Technology, KIT, Germany, (Project partner: Dr. Stefan Hey, movisens, Germany, (Project partner: Dr. Mohammed Elgammal, Zagazig University, Egypt, (Project partner: Dr. Sara ElBieh, Helwan University, Egypt, (Project partner: Dr. Nadim Nassif, Notre-Dame University, NDU, Lebanon.

PROFESSIONAL SERVICE

University Service

- Students Activities Coordinator, Egyptian Chinese University, Cairo, Egypt.
- Director of Entrepreneurship Unit & ISF, Zagazig University.
- Director of Innovators Support Fund (ISF), Zagazig University.
- Member of Entrepreneurs Club at Zagazig University.
- Member of TICO (Technology Innovation Commercialization Office) at Zagazig University.
- Determinant of the Supreme Sports Committee at Zagazig University.
- Head Coach of Women's Basketball at Zagazig University.

Journal Co-Organizer

- Associate Editor-in-Chief, Physical Education Research Journal (in Arabic), <https://mbtr.journals.ekb.eg/>
- Editorial Board of American Journal of Sports Science, SciencePG.

Peer-Reviewed Articles for:

- The International Journal of Health, Wellness and Society
- Journal of Human Movement and Sports Sciences
- Research & Investigations in Sports Medicine
- the International Journal of Sport and Society
- MOJ Sports Medicine (MOJSM)
- Certified PUBLONS Academy Peer Reviewer, PUBLONS Academy.
- Certified Peer Reviewer Course, The Elsevier Researcher Academy.

COMMUNITY SERVICE

Egyptian Basketball Federation, Sharkia branch

[Board member], [Zagazig], 2012-2021

Sharqiyah Sporting Club [Director of sports activity, Member of the Interim Committee of Sharqiyah Sporting Club, Coordination of sports activity (Soccer, Field Hockey, Volleyball, Handball, Compact Sports, Gymnastics, Tennis)], [Zagazig], April 2018 - Onwards

LANGUAGES

Arabic: Native Language

English: Superior Listener, Advanced Speaker, Superior Reading and Writing.

OTHER SKILLS AND COMPETENCES

- Working on Vicon Nexus 2.4 motion analysis system.
- Working on SIMI motion analysis system.
- Working on COSMED Srl – Italy, Cuark CPET Cardio Pulmonary Exercise testing
- Working on BERTEC force plates
- Working on KESTLER force plates
- Working on NORAXON EMG.
- Excellent with most Microsoft Office programmes.
- Training programs at the department of Mathematics at the faculty of sciences, Zagazig University in computer and its application in the different sciences (MS-Office – Windows – SPSS win).
- ICDL.

OTHER

Reading/Swimming and basketball

REFERENCES

Dr. Gongbing Shan, Professor
Department of Kinesiology, Biomechanics Lab
University of Lethbridge
4401 University Drive Lethbridge, Alberta, Canada, T1k 3M4
Phone: 01 403-329-2683
Email: g.shan@uleth.ca
Relationship: Advisor

Dr. Mohamed Ali, Professor
Department of Sport Training and Kinesiology
Zagazig University
Faculty of physical education 'male', Zagazig University, Egypt, 44519
Phone: 02 0122 101 1678
Email: dr_hamada9081@yahoo.com
Relationship: Supervisor