

# Sheyda Ghanbari Ghoshchi

PH.D. in BEHAVIORAL NEUROSCIENCE

## Profile

In the 2017/2018 academic year I was admitted to attend the Ph.D. program in BEHAVIORAL NEUROSCIENCE - Curriculum Neuropsychology and Cognitive Neuroscience.  
I was Ph.D. Fellow at the SMART Lab. (Laboratory for the Study of Mind and Action in Rehabilitation Technologies), and Clinical Laboratory of Experimental Neuro-rehabilitation (CLEN) of Santa Lucia Foundation I.R.C.C.S.; research line "Cognitive and motor rehabilitation and neuroimaging".

## Employment History

### Research Fellow, University of Bologna

NOVEMBER 2022 — PRESENT

### Tutor, University of Sapienza, Rome, Italy

FEBRUARY 2019 — PRESENT

Master degree (international course) in "Cognitive Neuroscience"; The theoretical and practical methods of diagnosis and rehabilitation of cognitive disorders. Sapienza University, Santa Lucia Foundation I.R.C.C.S., Rome, Italy.

### Clinical Consultant for Postural Anomalies, Sport Medicine Clinic, Oroumieh, Iran

FEBRUARY 2013 — DECEMBER 2014

### High School Teacher, Government, Iran.

FEBRUARY 2001 — FEBRUARY 2014

Full time High School Teacher in Physical Activity and Health at Tabriz, Oroumieh, Shiraz in Iran.

### Lecturer, Islamic Azad University, Oroumieh, Iran

FEBRUARY 2004 — FEBRUARY 2013

## Education

### Ph.D., University of Sapienza & Santa Lucia Foundation IRCCS, Rome, Italy

OCTOBER 2017 — JULY 2021

Ph.D. Fellow at Santa Lucia Foundation IRCCS, Rome, Italy.

Faculty of Medicine and Psychology - Santa Lucia Foundation IRCCS SmArt Lab. and Clinical Experimental Laboratory of Neuro-rehabilitation; Aimed at training researchers, theoretical and practical laboratory experts, using the skills necessary for the behavioral, neuropsychological, psychophysiological and neuroimaging techniques necessary for the study of human cognitive activity and the brain mechanisms underlying the recent psychological and neuropsychological models of cognitive functions.

### MSc, University of Rome Tor Vergata, Rome, Italy & McGill University, Montreal, Canada

SEPTEMBER 2014 — APRIL 2017

## DETAILS

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## NATIONALITY

## DATE / PLACE OF BIRTH

## Skills

Computer Skills

Time Management

Communication

Microsoft Office

Ability to Work Under Pressure

Adaptability

Ability to Work in a Team

Leadership Skills Analytical

Thinking Skills Project

Management Leadership

Effective Time Management

Communication Skills Creative

Problem Solving Fast Learner

Effective Team Leader

## Languages

Azerbaijani

## **Master of Science in PHYSICALACTIVITYAND HEALTH PROMOTION**

**Graduated with honors.**

University of Rome "Tor Vergata", Faculty of Medicine, Department of Biomedicine and Prevention (Class6 LM-K8),

McGill University, Faculty of Physical Education, Sport Psych. Laboratory, Montreal, Canada.

Thesis title "Physical Activity in Type II Diabetes Mellitus: the Role of Epsilon-PKC."

Thesis topic establish programs through physical activities for health promotion and disease prevention

## **MSc, Deree American College of Greece, Athens, Greece.**

OCTOBER 2010 — SEPTEMBER 2011

### **Master of Art in General Psychology**

## **MSc, Shiraz University, Shiraz, Iran**

FEBRUARY 2009 — JULY 2011

**Master of Science in Applied Exercise Physiology, Graduated with honors**

Thesis title "The Effect of Acute and Chronic Exercise and Physical and Psychological Stress on Brain-derived Neurotrophic Factor (BDNF) in Wistar Rats."

## **B.Sc., Physical Education and Sports Sciences, Tabriz University, Tabriz- Iran**

FEBRUARY 2000 — MARCH 2004

## **Organizational and management skills**

OCTOBER 2004 — PRESENT

CLICI Language Center, Tor Vergata University, Rome, Italy.

Teacher Training, Ministry of Education, Oroumieh, Iran.

Lecturer at Fitness Federation, Tehran, Iran.

Swimming Coaching & Referee in National Fitness Competition.

Founder of a bilingual (English-Persian) elementary school in Iran.

## **Professional skills**

OCTOBER 2011 — PRESENT

I have good communication skills acquired during my experience, as demonstrated by the various collaboration with different institutions and by various activities, in research, teaching and administration. Being multi-lingual and living in Iran, Greece, Italy, Canada has led me to have a multi-cultural profile and being open to communication.

## **Digital skills**

Windows Office 365, SPSS, Python.

Farsi

Turkish

English

Italian

Arabic

## Other skills

In the field of aesthetics and beauty, I attended Micro blading and Permanent Makeup courses.

## IMPORTANT INFORMATION

### Publications

OCTOBER 2010— PRESENTE

Cuomo G, Maglianella V, **Ghanbari Ghooshchy S**, Zoccolotti P, Martelli M, Paolucci S, Morone G, Iosa M. Motor imagery and gait control in Parkinson's disease: techniques and new perspectives in neurorehabilitation. *Expert Rev Neurother*. 2022 Jan;22(1):43-51. doi: 10.1080/14737175.2022.2018301. Epub 2021 Dec 28. PMID: 34906019.

Iosa M, Capodaglio EM, Persechino B, Pelà S, Ghanbari Ghooschi S, Tramontano M, Morone G, Paolucci S, De Angelis D, Panigazzi M. Instrumented assessment of visuomotor coordination in patients with stroke after neurorehabilitation. In Press. *Journal of Occupational Medicine and Ergonomics*.

Morone G, **Ghanbari Ghooshchy S**, Palomba A, Baricic A, Santamato A, Ciritella C, Ciancarelli I, Molteni F, Gimigliano F, Iolascon G, Zoccolotti P, Paolucci S, Iosa M. Differentiation among bio- and augmented- feedback in technologically assisted rehabilitation. *Expert Review of Medical Devices*. 2021. DOI:10.1080/17434440.2021.1927704.

**Ghanbari Ghoshchi S**, De Angelis S, Morone G, Panigazzi M, Persechino B, Tramontano M, Capodaglio EM, Zoccolotti P, Paolucci S, Iosa M. Return to Work and Quality of Life after Stroke in Italy, A Study on the Efficacy of Technologically Assisted Neuro-rehabilitation, *Int. J. Environ. Res. Public Health*, 2020; 176 5233.

**Ghanbari Ghooshchy S**, Iosa M, Ciancarelli I, Cereatti A, Zoccolotti P, Della Croce U, Paolucci S, Morone G. Sensorized assessment of bilateral hand movements in patients with stroke driven by rhythmic auditory or visual-auditory stimulation. *J Biol Regul Homeost Agents*. 2020 Sep-Oct;34(5 Suppl. 3):53-58. *Technology in Medicine*. PMID: 33386034.

Iosa M, **Ghanbari Ghooshchy S**, Morone G, Zoccolotti P, Franceschilli S, Bini F, Marinozzi F, Della Croce U, Paolucci S, Cereatti A. Visuomotor Integration for Coupled Hand Movements in Healthy Subjects and Patients with Stroke. *Front Bioeng Biotechnol*. 2020 Jun 30; 8:591. doi: 10.3389/fbioe.2020.00591. PMID: 32695751; PMCID: PMC7339959.

Morone G, Spitoni GF, De Bartolo D, **Ghanbari Ghooshchy S**, Di Iulio F, Paolucci S, Zoccolotti P, Iosa M. Rehabilitative Devices for a Top Down Approach. *Expert Rev Med Devices*. 2019. doi: 10.1080/17434440.2019.1574567.

Morone G, Girardi S, **Ghanbari Ghooshchy S**, Iosa M, Paolucci S. Wearable Devices and Virtual Reality for Neuro-rehabilitation : an Opportunity for Home Rehabilitation ,International Conference on Neuro-Rehabilitation ICNR, Converging Clinical and Engineering Research on Neuro-rehabilitation III; 2019; pp 601-605. Springer.

**Ghanbari Ghoshchi S**, Koushkie Jahromi M. The effects of chronic and acute physical and psychological Stress on Brain-Derived Neurotrophic Factor in Rats. *Journal of Physical Activity and Hormones*. 2018; 2(2)6 065-078.

**Ghanbari Ghooshchy S**, Kameli S, Koushkie Jahromi M. The effect of sport activity and gender differences on self-perception in adolescents. *Procedia Computer Science*, 2011; 36 1532-1534.

Kameli S, **Ghanbari Ghooshchy S**. Studying the self-discrepancy of students in different species of family in process model and family content. *Procedia - Social and Behavioral Sciences*, 2011; 306 1113-1117.

**Ghanbari Ghooshchy S**, Koushkie Jahromi M. Comparison of influence of aerobic exercise, in water walking and yogic exercise, on 3- methoxy 4-hydroxy phenyl glycol-sulfate in depressed girls. *Procedia - Social and Behavioral Sciences*, 2010; 56 958-9K1.

**Ghanbari Ghooshchy S**, Koushkie Jahromi M. Comparison of selected psychic characteristics between students of physical education and sport sciences with other students in Iran. *Procedia - Social and Behavioral Sciences*, 2010; 56 107K-1078.

## Research Projects

- 2022: MIFABENE Project
- 2020-2021: Advanced balance analysis and new tele-rehabilitation models for prevention of the risk of falling in the elderly and the neurological patients.
- 2018 - FEBRUARY 2021 STAR Project (Innovative strategies, programs and approaches for motor and functional rehabilitation of subjects with neurovascular adverse event outcomes for the purpose of reintegration into work); funded by INAIL (National Institute for Occupational Accident Insurance) on factors influencing outcomes in technologically assisted neuro-rehabilitation in patients with stroke.
- SWING IU System (a Wireless, low-Power, Magneto-Inertial measurement Unit MIMU, a Versatile System For Data Acquisition) for sensorized assessment of bilateral hand movements in patients with Stroke driven by rhythmic auditory or visual-auditory stimulation.
- 2016-2017, Research Trainee at McGill University, Sport Psych. Laboratory, Montreal, Canada.
- 2016-2017 Molecular Medicine Lab., Department of System Medicine, University of Rome Tor Vergata. Physical Activity in Type 2 Diabetes Mellitus: The Role of Epsilon-PKC.
- 2015-2017, National Academic of Sports' Culture Rome, Italy. Motor activity adapted to the aging processes.

## Collaborations

- 2018-2021 Multi Cell Technology Project IRCCS, Milan University of Medical Sciences, Italy
- 2009 Stem Cell Lab., Shiraz University of Medical Sciences, Studying on reproductive hormones and changes after incremental exercise in female rats with ovariectomy.
- 2010 Stem Cell Lab., Shiraz University of Medical Sciences, studying on the effect of aerobic exercise and physical and psychological stress through electric foot shock on brain-derived neurotrophic factor in Wistar rats.
- 2010-2011, Sport Psychology Lab, Faculty of Education and Psychology, Shiraz University, Iran. A comparative study of self-esteem, self-discrepancy and depression on gender differences in athlete and non-athlete adolescents.

## Conferences

- 2019 FENS Federation of European Neuro-science Society, EBBS meeting, Prague, Czech Republic.
- 2019 SIRM XXV National Conference, Perugia, Italy.
- 2018 ICNR International Conference on Neuro-rehabilitation, Pisa, Italy.
- 2018 SIRM XVIII. National Congress, Trieste, Italy.
- 2018 Cognition in Motion, MariLab., Rome, Italy.
- 2018 Vertebral Pain, diagnostic-therapeutic approach and minimally surgical treatment, Rome Italy.
- 2018 XXIX Olympic Session Humanism of Sport Victory and Defeat. Tradition 2014 University Institute for Education and Research, a world academic and

- 2016 SCAPPS, Conference of Canadian Society for Psycho-motor Learning and Sport Psychology, Waterloo, Canada
- 2014 University Institute for Education and Research, a world academic and research association, Athena, Greece.
- 2013 IAPESGW Congress, The International Association of Physical Education and Sports for Girls and Women (IAPESGW), Havana Convention Center Cuba.
- 2012 ICSEMIS Glasgow, International Convention on Science Education and Medicine in Sport, Glasgow, United Kingdom.
- 2010 American University of Cairo, Egypt, Virtual Presentation in the 2nd World Conference on Learning, Teaching & Administration, Cairo, Egypt.
- 2010 World Conference of Psychology, The Association of Academic World Education and Research Center, Antalya, Turkey.
- 2009 1st Conference on Nutrition and Education Science, Department of Physical Education of Payam-Noor University, Shiraz, Iran.
- 2007 National Conference on Physical Education, Daily Morning Exercise, Tabriz, IRAN.
- 2005 1st Scientific Conference on Physical Education, Elected Physical Education and Health Educators, Tehran.

## Certifications

**Pilates Instructor Certificate, Third category, Federation of General Sport, Iran**

JANUARY 2013 — PRESENT

**Aerobics & Fitness Training Instructor Certificate, Third Category, Federation of General Sport, Iran**

JANUARY 2008 — PRESENT

**Teacher trainee to teach new methods of teaching of physical education for elementary schools., Ministry of Education, Tehran, Iran.**

MAY 2013 — SEPTEMBER 2014

**VI Specialization Course « Motor Activity Adapted to Aging Processes », - National Academy of Sports Culture, Rome, Italy.**

JULY 2015 — PRESENT

**Volley-ball Referee Certificate, Third Category, Federation of Volleyball, Tehran, Iran**

JANUARY 2005 — PRESENT

**Fitness Referee Certificate, First Category, Federation of Fitness, Tehran, Iran**

NOVEMBER 2006 — PRESENT

**Aerobics Referee Certificate, Third Category, Federation of Aerobic and fitness, Tehran, Iran.**

FEBRUARY 2008 — PRESENT

## Memberships

**SIAMOC, Member of Italian Society of Movement Analysis in Clinic., Milan, Italy.**

FEBRUARY 2020 — PRESENT

**SIRN, Member of Italian Society for Neurological Rehabilitation., Florence, Italy.**

APRIL 2019 — PRESENT

**DEA School, Information Technology, Applied Psychology and Educational Assistance, Continuing Education in Health (ECM)., Rome, Italy**

JANUARY 2019 — PRESENT

**FENS, Member of Federation of European Neuroscience Societies., Brussels, Belgium**

SEPTEMBER 2019 — PRESENT

**SCAPPS, Member of the Canadian Society for Psychomotor Learning and Member of**

SEPTEMBER 2016 — PRESENT

**ECSS, Member of the European College of Sports Sciences. Cologne Germany**

JANUARY 2014 — PRESENT

**BASES, Member of the British Association of Sports and Exercise Sciences. United Kingdom**

JANUARY 2012 — DECEMBER 2013

**Member of the Aerobic and Fitness Federation, Federation of General Sport, Tehran, Iran**

JANUARY 2008 — DECEMBER 2009

## Interests

**Biking, Hiking, Trekking, Skiing, Swimming, Aerobic, Pilates, History, Cooking, Interior design, Traveling and adventure, Dance, Learning new languages, Fashion and Photography.**