

## PERSONAL DATA

**Samaneh Sadat Dastgheib,**  
**M.D. PhD candidate**

Date of birth: 28. June 1987  
Nationality: Iranian

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Institute of Psychology, Department of  
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## EDUCATION

<b>2019-Present</b>	<b>Ph.D. Candidate at General Psychology and Cognitive Neuroscience, Friedrich Schiller University of Jena</b> Dissertation Title: Social Skills in Autism Spectrum Disorders (ASD) and their possible Enhancement with Neurofeedback Training Supervision by Dr. Stefan R. Schweinberger, Professor, Dipl.- Psych. and Univ. Prof. Dr. Christian Dobel, Dipl. Psych
<b>2005-2013</b>	<b>Doctorate in Medicine (Hons)</b> Mashhad University of Medical Sciences, School of Medicine, Mashhad, Iran.  Thesis Title: Therapeutic Effects of Mozart's Music on Epileptic Patients: Systematic Review and Meta-Analysis of the Literature (Grade: A+)GPA: 19.75/20 Supervision by Univ. Prof. Dr. Ali Shoeibi, M.D., Univ. Prof. Dr. Ramin Sadeghi, M.D.
<b>2012-2013</b>	<b>Internship</b> Mashhad University of Medical Sciences, Mashhad, Iran Hospitals: Ghaem, Emam Reza, Dr. Sheikh, Ibn-e-Sina, Ommol Banin, and Khatam-al-Anbia.  Related Passed Courses: Neurology (Theoretical and Practical (T&P)), Psychology, Neurosurgery, Psychiatry (T&P), Neuroanatomy (T&P), Physiology (T&P), Pathology (T&P), Immunology (T&P), Biochemistry (T&P), Histology (T&P), Psychology.

**PROFESSIONAL POSITIONS**

<b>10.2021-Present</b>	Medical consults on Digital Therapeutics, Neurocare company, München, Germany <a href="https://neurocareclinics.com.au/">https://neurocareclinics.com.au/</a>
<b>10.2019-04.2020</b>	Research assistant with lectureship position at the Department of General Psychology and Cognitive Neuroscience at the Friedrich Schiller University of Jena, Germany
<b>05.2019-10.2019</b>	Research assistant supporting multidisciplinary projects at the Department of General Psychology and Cognitive Neuroscience at the Friedrich Schiller University of Jena, Germany
<b>11.2018-01.2019</b>	Student assistant at General Psychology and Cognitive Neuroscience at the Friedrich Schiller University of Jena, Germany
<b>2017-2018</b>	General Practitioner, Family Physician, Physician of Medical Comprehensive Urban Health Services, Isar Comprehensive Health Services Center, Qom University of Medical Sciences, Qom, Qom, Iran
<b>2017</b>	General Practitioner, Family Physician, Jangeh Infirmary, Ahvaz University of Medical Sciences, Jangeh, Izeh, Khuzestan, Iran. (Physician Shortage in poor and rural areas, worked as voluntarily)
<b>2016-2017</b>	General Practitioner, Family Physician, Sarbook Infirmary, Iranshahr University of Medical Sciences, Sarbook, Sistan and Baluchestan, Iran. (Physician Shortage in poor and rural areas, worked as voluntarily)
<b>2015-2016</b>	Researcher at Cognitive Science Lab, Shahid Beheshti University, Tehran, Iran. <ul style="list-style-type: none"> <li>• Supervisor: Dr. Vahid Nejati</li> <li>• Research: Cognitive Neuroscience of Abstract and Philosophical Thinking.</li> <li>•</li> </ul>
<b>2013-2015</b>	Research Associate, Shefa Neuroscience Research Center, Tehran, Iran. <ul style="list-style-type: none"> <li>• Supervisor: Dr. Ali Gorji</li> <li>• Research: Cognitive Neuroscience of Music, Language, and Epilepsy. The research involved how music affects learning and cognition in typical and epileptic brains.</li> </ul>
<b>2011-2013</b>	Researcher & Physician at Neurology Clinic & Research Center, Qaem Hospital, Mashhad University of Medical Sciences, Mashhad, Iran. <ul style="list-style-type: none"> <li>• Supervisor: Dr. Ali Shoeibi</li> <li>• Research: Music Therapy in Epilepsy, Movement Disorders.</li> </ul>
<b>2009-2011</b>	Research Associate at Physiology Laboratory Mashhad University of Medical Sciences, Mashhad, Iran <ul style="list-style-type: none"> <li>• Supervisor: Dr. Mahmud Hoseini</li> <li>• Research: Rat hippocampus, disorders affecting learning and memory. The role of Nitric oxide in the molecular mechanism of memory impairment in hypothyroidism.</li> </ul>

## HONORS AND AWARDS

<b>04.2020-04.2023</b>	Winner of the scholarship of the Thuringian Graduate Promotion Ordinance, "Landesgraduiertenstipendien," Jena, Germany.
<b>01.2019-10.2019</b>	Fellowship from Herbert Feuchte Stiftungsverbund for research and establishing neurofeedback technique in the General Psychology and Cognitive Neuroscience department at the Friedrich Schiller University of Jena, Jena, Germany.
<b>2016</b>	Winner of Best Research Proposal Grant at Shefa Neuroscience Research Center, Tehran, Iran.
<b>2011</b>	Distinguished Best Poster presentation at "The Brain, Mind, Health, and Education in Children" congress, Tehran, Iran.
<b>2010</b>	Distinguished Best Lecturer at the "1st Razavi International Epilepsy Congress," Mashhad, Iran.
<b>2009</b>	Travel Grant Recipient at the "4th International Summer School in Biomedical Engineering, Brain Connectivity and Information Transfer," Leipzig, Germany.
<b>2005</b>	Ranked 110 in the national entrance examination, among more than 400 thousand participants.

## LANGUAGES EFFICIENCY

<b>Persian</b>	Native
<b>English</b>	Fluent ( <b>TOEFL iBT: 96</b> )
<b>German</b>	Intermediate ( <b>B1</b> )
<b>Arabic</b>	Beginner ( <b>A2</b> )

## RESEARCH INTEREST

- ❖ Cognitive Neuroscience
- ❖ Neurology, Neuropsychological Disorders, ad
- ❖ Neural Plasticity and Neurorehabilitation
- ❖ The Relationship and Interaction of Cognitive Neuroscience & Philosophy

## PUBLICATIONS

- **Book Chapters:**
1. A Complete Introduction to Neuroscience. Co-authored with Ahmadali Lotfinia, Mahmoud Lotfinia, Ali Gorji, Tehran: Khatam Al Anbia Publisher, 2014.

2. Relief and Rescue in Disasters and Accidents. Co-authored with Fatemeh Alipour, Leyla Bayan, Seyedeh Samaneh Esteghamat, Sanaz Moghaddami Monaghi, Ali Gorji, Pirhossein Kolivand, Tehran: Khatam Al Anbia Publisher, 2013.



➤ **Articles:**

1. Sharifi G, Hallajnejad M, **Dastgheib SS**, Lotfinia M, Mirghaed OR, Amin AM. Clinical outcome of selective amygdectomy in a series of patients with resistant temporal lobe epilepsy. *Surg Neurol Int.* 2021;12:575.
2. **Dastgheib S**, Layegh P, Sadeghi R, Foroughipur M, Shoeibi A, Gorji A. The Effects of Mozart's Music on Interictal Activity in Epileptic Patients: Systematic Review and Meta-Analysis of the Literature. *J Cerebr Blood F Met.* 2016;36:758-9.
3. **Dastgheib S**, Riasi M, Anvari M, Ghasemi MM, Rajati M. The Effect of Music Training Program on Development of Language, Cognitive and Motor Skills in Children Using Cochlear Implants; a Randomized Control Trial. *J Cerebr Blood F Met.* 2016;36:758-.
4. Bayan L, Alipour F, Kolivand P, **Dastgheib SS**, Neuromarketing: The Cognitive Approaches to Consumer Behavior. *Shefaye Khatam.* 2014; 2 (4) :46-59
5. Bayat G, **Dastgheib SS**, Shoeibi A, The Impact of Program Based Computer Software versus Mozart's Music on Hemiparetic Patients Using Magnetic Resonance Spectroscopy: A Randomized Control Trial Study Presentations. *International Journal of Stroke.* 2014;9:41-331.
6. **Dastgheib SS**, Bayat G, Shoeibi A, The Impact of Neurorehabilitation Software versus Mozart's Music on Hemiparetic Patients Using SPECT Imaging: A Randomized Control Trial Study, Poster Presentations. *International Journal of Stroke.* 2014;9:41-331.
7. Ghandhari K, Moghddam A, **Dastgheib SS**, Fadayi S, Taheri M, Ebrahimzadeh S, Sharifi A, Diagnostic Values of Physical Examination in Localizing the Sub-Tectorial Lesions in Patients Suffering from Stroke, Published at The Journal of Gorgan University of Medical Sciences.
8. Farrokhi E, Hosseini M, Beheshti F, Vafaei F, Hadjzadeh M, **Dastghaib S**. Brain Tissues Oxidative Damage as a Possible Mechanism of Deleterious Effects of Propylthiouracil-Induced Hypothyroidism on Learning and Memory in Neonatal and Juvenile Growth in Rats. *BCN.* 2014; 5 (4) :285-294
9. **Dastgheib SS**, Layegh P, Sadeghi R, Foroughipur M, Shoeibi A, Gorji A. The Effects of Mozart's Music on Interictal Activity in Epileptic Patients: Systematic Review and Meta-Analysis of the Literature. *Current Neurology and Neuroscience Reports.* 2014;14(1): 420.
10. Riyasi M, **Dastgheib SS**, Utilization of Basic Musical Concepts to Accelerate Language Acquisition in Children after Cochlear Implantation. Published at *Shefaye Khatam Journal*, spring 2013 issue.
11. Vakilzadeh G, **Dastgheib S**, Gharib Naseri M. Effect of Vitis vinifera Leaf Hydroalcoholic Extract on Rat Urinary Bladder Contractility. *Shefaye Khatam.* 2014; 2 (1) :24-30
12. Shoeibi A, **Dastgheib S**, Layegh P, Sadeghi R, Gorji A. Therapeutic effects of Mozart's music on epileptic patients: systematic review and meta-analysis of the literature. *J Neurol.* 2013;260: S150-S.
13. Razavi AS, Sadati Kiadehi SM, Razavi ES, **Dastgheib S**. P 259. Therapeutic applications music therapy in cognitive problems of multiple sclerosis patient. *Clinical Neurophysiology.* 2013 10//;124(10):e186-e7.
14. **Dastgheib SS**, Riyassi M, Anvari M, Tayarani Niknejad H, Hoseini M, Rajati M, et al. Music Training Program: A Method Based on Language Development and Principles of Neuroscience to Optimize Speech and Language Skills in Hearing- Impaired Children. *Iranian Journal of Otorhinolaryngology.* 2013;25(71): 91-5.
15. Hosseini M, **Dastghaib SS**, Nahrevanian H, Farrokhi I. Methimazole - induced hypothyroidism during lactation affects brain nitric oxide levels in offspring rats. *Clin Biochem.* 2011;44(13): S168-S.
16. Mahmoud H, **Sadat DS**, Hossein N, Ismaeil F. Methimazole - induced hypothyroidism during lactation affects brain nitric oxide levels in offspring rats. *Clin Biochem.* 2011;44(13): S58-S.

17. Hosseini M, **Dastghaib SS**, Rafatpanah H, Hadjzadeh MA, Nahrevanian H, Farrokhi I. Nitric Oxide Contributes to Learning and Memory Deficits Observed in Hypothyroid Rats during Neonatal and Juvenile Growth. *Clinics (Sao Paulo)*.65(11): 1175-81.
18.
  - **Lectures and Presentations:**
1. **Samaneh S Dastgheib**, Golnaz Bayat, Ali Shoeibi, The impact of neurorehabilitation software versus Mozart's music on hemiparetic patients using SPECT imaging: A randomized control trial study, 9th World Stroke Congress, 22-25 October 2014, Istanbul, Turkey, Poster Presentation.
2. Golnaz Bayat, **Samaneh S Dastgheib**, Ali Shoeibi, The impact of program based computer software versus Mozart's music on hemiparetic patients using magnetic resonance spectroscopy: A randomized control trial study, 9th World Stroke Congress, 22-25 October 2014, Istanbul, Turkey, Poster Presentation.
3. Razavi AS, Sadati Kiadehi SM, Razavi ES, **Samaneh S Dastgheib**. Therapeutic applications music therapy in cognitive problems of multiple sclerosis patients.30th International Congress of Clinical Neurophysiology, 19–23 March 2014, Berlin, Germany, Poster Presentation.
4. **Samaneh S Dastgheib**, Music while Driving; the Impact of Music on Driving Performance, 2nd International Road Safety Congress, February 18-19, 2014, Tehran, Iran, Poster Presentation.
5. **Samaneh S Dastgheib**, Mina Riyasi, Could Music Be a Possible Origin for Abstract Thinking in Language?, 2nd Basic and Clinical Neuroscience Congress, December 18- 20, 2013, Tehran, Iran, Oral Presentation.
6. **Samaneh S Dastgheib**, The Impact, and Comparison of Neurorehabilitation Software versus Music Therapy on Patients Suffering from Stroke, 6th National and 1st International Iranian Stroke Congress, November 27-29, 2013, Tabriz, Iran, Poster Presentation.
7. **Samaneh S Dastgheib**, A New Rehabilitation Method, Based on Developmental Phases and Neural Sciences, in the First Three Months after Cochlear Implantation, 12th International Congress of Iranian Audiology, April 30- May 2, 2013, Tehran, Iran, Oral Presentation.
8. **Samaneh S Dastgheib**, The Impact of Music Training on Children's Lives, The 1st National Meeting for Public on the Importance of Music in Daily Life. March 15, 2013, Mashhad, Iran, Oral Presentation.
9. Mina Riyassi, **Samaneh S Dastgheib**, Utilization of Basic Musical Concepts to Accelerate Language Acquisition in Children after Cochlear Implant According to Recent Neuroscience Research, 8th National Iranian Linguistic Congress, February 12- 13, 2013, Tehran, Iran, Oral Presentation.
10. **Samaneh S Dastgheib**, Mahdi Ghorbanian, Could Music Be a Possible Origin for Language?, 42nd Annual Meeting of the Society for Neuroscience, October 13-17, 2012, New Orleans, LA, USA, Poster Presentation.
11. Mojgan Kalaie Moghadam, **Samaneh S Dastgheib**, Farzaneh Abedini, Long-Term Effects of Music Therapy on Anxiety Disorders, 1st Razavi International Anxiety Congress, October 8-10, 2012, Razavi Hospital, Mashhad, Iran, Poster Presentation.
12. Farzaneh Abedini, Samaneh S Dastgheib, Mojgan Kalaie Moghadam, Anxiety, Negative Plasticity, and Neural Apoptosis, 1st Razavi International Anxiety Congress, October 8-10, 2012, Razavi Hospital, Mashhad, Iran, Poster Presentation.
13. **Samaneh S Dastgheib**, Mother-Child Attachment, International Brain, Mind, Health and Education in Children, November 29-30, 2011, Tehran, Iran, Poster. **Distinguished Best Poster Award Winner.**
14. **Samaneh S Dastgheib**, Neurophilosophy: Reconciliation of Philosophy and Science, 8th IBRO World Congress of Neuroscience, July 14-18, 2011, Florence, Italy, Poster Presentation.
15. Niloofar Safaie, **Samaneh S Dastgheib**, Music and Epilepsy, 1st Razavi International Epilepsy Congress, December 10-23, 2010,

Mashhad, Iran, Oral Presentation.

**Distinguished Best Lecturer Award Winner.**

16. Samaneh S Dastgheib, Niloofar Safaie, Music in the Normal Brain, 1st Razavi International Epilepsy Congress, December 10-23, 2010, Mashhad, Iran, Poster Presentation.
17. Niloofar Safaie, Samaneh S Dastgheib, Music in the Epileptic Brain, 1st Razavi International Epilepsy Congress, December 10-23, 2010, Mashhad, Iran, Poster Presentation.
18. Elahenaz Hoseinpoor, Samaneh S Dastgheib, Cognition: The Most Important Part of the Art of Decision Making in the Emergency Department, 4th Annual Congress on Emergency Medicine, January 12-14, 2010, Mashhad, Iran, Poster Presentation.
19. **Samaneh S Dastgheib**, Neurophilosophy: Reconciliation of Philosophy and Science, 4th International Summer School in Biomedical Engineering, Brain Connectivity and Information Transfer, August 13-27, 2009, Leipzig, Germany, Poster Presentation.

➤ **Submitted/under preparation:**

1. **Dastgheib SS**, Kaufmann JM, Moratti S, Schweinberger SR, Event-related oscillations in human social interaction and action observation

➤ **Ongoing projects:**

1. **Dastgheib SS**, Wang W, Kaufmann JM, Moratti S, Schweinberger S, The effect of Mu Suppression Neurofeedback Protocol on Electroencephalography and Emotion Recognition of Neurotypical Individuals.
2. **Dastgheib SS**, Schweinberger S, Mechanisms of Cortical Plasticity resulting from Cognitive Training, Neurofeedback, and Physical Fitness Training for the Enhancement of Cognitive Function: A Systematic Review

**PATENT:**

A patent about optimizing research and patients' care in neurology practice is in the process of submitting. This patent is an integrated software designed for neurologists to bring research into practice. This software would keep a record of patients' medical documents and at the same time prepare their data for research and clinical trials. The software can also analyze all the statistical data and keep track of the research projects that are already defined for it. The mini model of this patent is designed and is in the process of submitting.

**TEACHING EXPERIENCES**

1. Lecture series in basic and clinical neuroscience: Teaching neuroscience courses for medical students of Mashhad University of Medical Sciences and Mashhad Islamic Azad University of Medical Sciences and graduate students of philosophy at Eshragh Institute for Humanist Studies in Tehran.

\*Each Course has been held twice a year when new members join the Neuroscience and Mental Health Research Groups

1. Introduction to Neural Sciences
2. Review of Neuroanatomy
3. Neuroscience of Somatosensory System
4. Neuroscience of Visual System I
5. Neuroscience of Visual System II
6. Neuroscience of Auditory System

7. Brainstem I, Medula and Pons
8. Brainstem II, Pons and Midbrain
9. The architecture of Cerebral Cortex
10. Neurodegenerative Disorders
11. Introduction to Cognitive Neuroscience
12. Introduction to Neuroscience Societies; SfN, IBRO, etc.
13. Pathophysiology of Neurological disorders

2. Workshops: Instructor of the following workshops to medical students:

<b>2014</b>	➤ How to Conduct Randomized Control Trials, Shefa Neuroscience Research Center, Khatam Al Anbia Hospital, Tehran, Iran.
<b>2014</b>	➤ What Is a Meta-analysis? and How to Perform It, Shefa Neuroscience Research Center, Khatam Al Anbia Hospital, Tehran, Iran.
<b>2009</b>	➤ Rat Surgery for Electroencephalography Workshop, Razi Research Institute, Mashhad Islamic Azad University of Medical Sciences.
<b>2009</b>	➤ Workshop Lectures: Neuroscience Basis of Epilepsy, Mashhad Islamic Azad University of Medical Sciences.
<b>2009</b>	➤ Workshop Lectures: Spreading Depression, Mashhad Islamic Azad University of Medical Sciences, 2009.

3. Since the middle of 2021, and during a pandemic, I started organizing regular online neuroscience reading meetings devoted to reading, teaching, and discussing the book "Principles of Neural Science," sixth edition, by Eric R. Kandel, John D. Koester, Sarah H. Mack, Steven A. Siegelbaum. The audiences of this voluntary teaching act are bachelor and master students of psychology at FSU and interested graduate candidates.

### RESEARCH AND LABORATORY TECHNIQUES

#### ❖ Human:

- Systematic Review and Meta-analysis/ Conducting Clinical Trails, Mostly Randomized Clinical Trials.
- EEG, ERP, QEEG
- Neurofeedback

#### ❖ Animal:

- Electroencephalography (ECoG)
- Animal brain perfusion (Rats)
- Tissue preparation
- Immunohistochemistry
- Stereotaxic surgery (Rats)
- Animal behavioral tests, including Passive Avoidance Learning Test (Shuttle box)

### PROFESSIONAL MEMBERSHIP

<b>2015-Present:</b>	Member, World Stroke Organization
<b>2015-Present</b>	Member of MENSA International ( <a href="https://www.mensa.org/">https://www.mensa.org/</a> ).
<b>2012-Present:</b>	Member, Society for Neuroscience, SfN.
<b>2010-Present:</b>	Member, International Brain Research Organization, IBRO.
<b>2014-2018</b>	Scientific Arbiter, The neuroscience journal of Shefaye Khatam, ISSN No.: 2345-4814.
<b>2009-2017</b>	Scientific Coordinator, Mashhad Neuroscience Research Group.

### HOBBIES

Philosophy (German idealism)- Psychoanalysis and psychodynamic psychotherapy-Painting-Dancing

As my contribution to society, I have started giving online free medical consults since the beginning of the COVID 19 pandemic, which decided to continue as a long-time charity act.

### REFERENCES

- Univ.-Prof. Dr. Stefan R. Schweinberger  
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Friedrich Schiller University of Jena  
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Web: <http://www.allgpsy.uni-jena.de> (Department)  
Web: <http://www.personperception.uni-jena.de> (PPRU)  
Web: <http://www.autismus.uni-jena.de> (Social Potential in Autism Research Unit)  
Web: <http://www.voice.uni-jena.de> (Voice Research Unit)
- Prof. Ali Gorji, MD Ph.D., Full Professor, Department of Neurophysiology, University of Münster,  
Münster, Germany.  
Home Page: <https://campus.uni-muenster.de/epilepsy-center/center/staff/curriculum-vitae-ali-gorji/>  
E-mail: [gorjial@uni-muenster.de](mailto:gorjial@uni-muenster.de) Phone: +492518355564
- Dr. Ali Shoeibi, MD, Associate Professor of Neurology, Mashhad University of Medical Sciences,  
Mashhad, Iran.  
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