

Helia Mojtabavi

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Stratton VA medical center, 113
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12208

Education

Doctor of Medicine (M.D.), Tehran University of Medical Sciences (TUMS) | 2020

- ✓ Thesis title: Persian Adaptation of Edinburg Cognitive and Behavioural Screen (ECAS)

Experimental Science Diploma, Kooshesh high school, Tehran, Iran | 2012

Research Interests

Motor Rehabilitation | Neural plasticity | Neuromodulation of H-reflex | Motor Learning | Gait-adaptation | Audio-motor synchronization | Stroke | Neuromuscular disease

Official work Experience

- ✓ **Post-doctoral Research Scientist** | National Center for Adaptive Neurotechnologies (NCAN), Stratton VA medical center, Albany, NY | June 2022 – present
- ✓ **Technical Consultant** | World Health Organization (WHO), Immunization training, capacity building, and vaccine acceptance for different COVID19 vaccines in Iran at Department of communicable diseases (DCD) | Tehran, Iran | April 2021 – May 2022
- ✓ **Research Assistant** | Systematic review and Meta-analysis Research Group (SRMEG) at Universal Scientific Education and Research Network (USERN), Tehran, Iran | June 2018 – present

Clinical Experience

- ✓ **Clinical internship** at Academic Hospitals affiliated to Tehran University of Medical sciences | 1.5 years **full patient responsibility** on various medico surgical rotations | Sept 2018 - March 2020
- ✓ **Neuroradiology internship**, Medical Imaging Department | St. Michael Hospital | University of Toronto | Canada, Supervised by Prof. T. Marotta | May 2018
- ✓ **Clinical Neurology internship**, Neurology Department | St. Michael Hospital | University of Toronto | Canada, Supervised by Prof. D. Rotstein | April 2018

Publications

1. **Mojtabavi H**, Shaka Z, Momtazmanesh S, Ajdari A, Rezaei N. Circulating brain-derived neurotrophic factor as a potential biomarker in stroke: a systematic review and meta-analysis. *Journal of translational medicine*. 2022.
2. **Mojtabavi H**, Nafissi S, Mahmoodi-Bakhtiari B, Fathi D, Fatehi F. *Persian Adaptation of Edinburgh Cognitive and Behavioural Screen (ECAS)*. *ALS and FTD journal*. 2021.

3. **Mojtabavi H**, Saghazadeh A, Van der Heuvel L, Bucker J, Rezaei N. *Peripheral Blood Levels of Brain-Derived Neurotrophic Factor in Patients with Post-traumatic Stress Disorder (PTSD): A Systematic Review and Meta-analysis*. PlosOne 2020.
4. **Mojtabavi H**, Saghazadeh A, Valenti VE, Rezaei N. *Can music influence cardiac autonomic system? A systematic review and narrative synthesis to evaluate its impact on heart rate variability*. Complementary Therapies in Clinical Practice 2020.
5. **Mojtabavi H**, Saghazadeh A, Rezaei N. *Interleukin-6 and Severe COVID-19: A Systematic Review and Meta-analysis*. European Cytokine Network. 2020.
6. **Mojtabavi H**, Fatehi F, Shahkarami S, Rezaei N, Nafissi S. *Novel Mutations of TYMP Gene in Mitochondrial Neurogastrointestinal Encephalomyopathy: Case Series and Literature review*. Journal of molecular neuroscience. 2021.
7. Maroufi SF, Shaka Z, **Mojtabavi H**, Sadeghalvad M, Rayzan E, Sedighi I, Shahkarami S, Najafi M, Rohlfis M, Klein C, Rezaei N. *Novel G6PC3 Mutations in patients with Congenital Neutropenia: Case reports and Review of the Literature*. Endocrine, Metabolic & Immune Disorders Drug Targets. 2021.
8. Shaka Z, **Mojtabavi H**, Rayzan E, Zoghi S, Shahkarami S, Raul JH, Sedighi I, Boztug K, Rezaei N. *Novel BTK mutation in X-linked agammaglobulinemia: Report of a 17-year-old male*. Allergologia et immunopathologia. 2021.
9. **Mojtabavi H**, Javidi N, Naviaux AF, Janne P, Gourdin M, Mohammadpour M, Saghazadeh A, Rezaei N. *Exploration of the epidemiological and emotional impact of quarantine and isolation during the COVID-19 pandemic*. In Coronavirus Disease-COVID-19 2021 (pp. 687-703). Springer, Cham.
10. Khosravi B, Aghaghazvini L, Sorouri M, Atashi S, Abdollahi M, **Mojtabavi H**, Khodabakhshi M, Motamedi F, Azizi F, Rajabi Z. *Predictive value of initial CT scan for various adverse outcomes in patients with COVID-19 pneumonia*. Heart & Lung 2020.
11. Sorouri M, Kasaeian A, **Mojtabavi H**, Radmard A, et al. *Clinical characteristics, outcomes, and risk factors for mortality in hospitalized patients with COVID-19 and cancer history: a propensity score-matched study*. Infectious Agents and Cancer Dec 2020
12. **Mojtabavi H**, Sorouri M, Kasaeian A, Saberzadeh-Ardestani B, Radmard AR, Khosravi B, Eslahi M, Sirusbakht A, Pourabbas SM, Khodabakhshi M, Motamedi F. *Clinical Findings and Predictors of Mortality in 354 COVID-19 Cases; a Report from a Tertiary Center in Tehran, Iran*. Authorea Preprints. 2020.
13. Yazdanpanah N, **Mojtabavi H**, Ziaei H, Pirkoohi ZR, Rayzan E, Rezaei N. *The Clinical Benefits of Art Therapy: Definition, History, and Outcomes with a Focus on Music Therapy*. In Multidisciplinarity and Interdisciplinarity in Health 2022.
14. Rezaei N, Saghazadeh A, Ghani AR, Vedadhir A, Vahed A, Vellido A, Afshar A, Zali A, Kushniruk A, Blacutt AA, Pennisi A, **Mojtabavi H**. *Integrated Science 2050: Multidisciplinarity and Interdisciplinarity in Health*. In Multidisciplinarity and Interdisciplinarity in Health 2022
15. Davari FV, Teymouri F, Amoli HA, **Mojtabavi H**, Sharifi A, Alaeddini F, Ashouri M, Zabihi H, Shariatpanahi G, Zafarghandi M. *Problem-based learning as an effective method for*

- teaching theoretical surgery courses to medical students.* Journal of Education and Health Promotion. 2021.
16. Anushiravani A, Khosravi B, Saberzadeh-Ardestani B, Ghasemi A, Kalantari S, Sorouri M, **Mojtabavi H**, Ghaemi O, Radmard AR, Kasaeian A, Motamedi O. *A reliable prognostic marker for liver dysfunction in COVID-19 infection.* Middle East Journal of Digestive Diseases (MEJDD). 2021.
 17. Aghaei Moghadam E, Aslani N, **Mojtabavi H**, Larti F, Ghamari A, Ziaee V. *Giant thrombosis at left anterior descending artery aneurysm in a 10-year old boy with granulomatosis with polyangiitis.* Case Reports in Cardiology. 2020.
 18. Zeinaloo AA, Moghadam EA, Salimi A, Ghamari A, **Mojtabavi H**, Golchin AB, Meshkat S. *An Affected Child with Arrhythmogenic Right Ventricular Dysplasia and Severe Left Ventricle Dysfunction: A Rare Case Report.* Journal of Comprehensive Pediatrics. 2020.
 19. Saghazadeh A, **Mojtabavi H**, Khaksar R, Rezaei N. *Dreams Tell the Brain True Stories.* Springer International Publishing; 2019.
 20. Saghazadeh A, **Mojtabavi H**, Khaksar R, Rezaei N. *The sixth sense: Let your mind go to sleep.* Springer International Publishing 2019.
 21. Saghazadeh A, **Mojtabavi H**, Khaksar R, Rezaei N. *The sixth sense organs: The Ears.* Springer International Publishing; 2019.
 22. Saghazadeh A, **Mojtabavi H**, Khaksar R, Rezaei N. *The sixth sense organs: The Eyes.* Springer International Publishing; 2019.
 23. Saghazadeh A, **Mojtabavi H**, Khaksar R, Rezaei N. *The sixth sense organs: The Heart.* Springer International Publishing; 2019.
 24. Saghazadeh A, **Mojtabavi H**, Khaksar R, Mahmoudi M, Rezaei N. *The sixth sense organs: The Gut.* Springer International Publishing; 2019.
 25. Saghazadeh A, **Mojtabavi H**, Khaksar R, Rezaei N. *The sixth sense organs: The Hands.* Springer International Publishing; 2019.

Ongoing Research Projects

- ✓ Studying the Negotiated Equilibrium Between the Substrate of a New Motor Skill and the Substrate of an Old One | March 2023
- ✓ Operant conditioning of Soleus H-reflex in stroke population, a randomized clinical trial | June 2022
- ✓ Can BDNF therapy boost neural plasticity and result in functional improvement in spinal cord injured population? A systematic review of preclinical studies | August 2022
- ✓ CSF and Blood Levels of Neurofilaments, Total tau, Phosphorylated tau, and Abeta-42 in Amyotrophic Lateral Sclerosis: a Systematic Review and Meta-Analysis | under journal review

Skills and Hobbies

General

- Leadership • Team work • Critical thinking • Presentation skills • Scientific Writing • Meta-analysis

Primates Lab (Rodent Behavioral)

- Non-human Primates handling • Elevated plus Maze (EPM) • Morris Water Maze (MWM) • Open Field Test (OFT) • Object Recognition Test (ORT) • Forced Swimming test (FST)

Data-Analysis

- SPSS • STATA • Python

Technical Skills

- Prezi • Endnote • Zotero • Microsoft Office

Hobbies and Activities

- Vocalist (Soprano)

Mozart Requiem in Vahdat Hall, Tehran, Iran | December 2021

Old songs of the world in Arasbaran Hall, Tehran, Iran | December 2018

- Classical guitar player
- Yoga and meditation

Professional Activities and Congress Attendance

- ✓ Attended Society for Neuroscience | San Diego, CA | November 2023
- ✓ Attended Operant Conditioning of Muscle Evoked Potentials for Rehabilitation | in person workshop by Aiko Thompson | Medical University of South Carolina (MUSC) | Charleston, SC | December 2022
- ✓ Attended Professional Training Program in Mind-body Medicine | Online training at Center for Mind Body Medicine (CMBM), Washington, DC | April 2022
- ✓ Completed Neuromatch Academy Computational Neuroscience course, interactive student track and project | Online course, Founded by Megan Peters | University of California Irvine | July 2021
- ✓ Certified trainer to administer Montreal Cognitive Assessment (MoCA) | October 2021
- ✓ Invited reviewer at the Neuropsychobiology journal | December 2021
- ✓ Attended the 7th annual congress of Basic and Clinical Neuroscience | Razi hall | Tehran | September 2018
- ✓ International coordinator of Students' Scientific Research Center (SSRC) of TUMS | January 2015 to October 2017

- ✓ Participated at 7th annual congress of Basic and Clinical Neuroscience | Razi hall | Tehran | September 2018
- ✓ Participated at First Berlin Emergency Education Program (BEEP)| Charite Berlin University| Berlin| Germany| September 2017
- ✓ Disaster Management trainer at Medicine in the Extremes (MIE 2016)
- ✓ Director of International Summer School Medicine in the Extremes (MIE) 2016
- ✓ Director of International Summer School on Emergency Medicine (ISEM) 2015
- ✓ International director of First and Second International Festival of Pediatric Patients' Paintings (IFPPP) 2016| Budapest Hungary
- ✓ Vice president of external affairs (VPE), International Federation of Medical Students' Associations (IFMSA-TUMS) | January 2014 to December 2015

Awards and Honors

- ✓ Granted approx. 10 000 US dollars from TUMS for directing Medicine in the Extremes 2016 (MIE), which trained 20 Medical students from 3 different countries mainly from Germany, Iran and Iraq | May 2016
- ✓ Granted approx. 10 000 US dollars from TUMS for directing International Summer School on Emergency Medicine (ISEM) which trained 50 Medical students from 7 different countries mainly from Germany, Iran, Portugal, UAE and Iraq | May 2015
- ✓ Rank 206 among 449955 applicants in national entrance exam for University| June 2012
- ✓ Awarded full scholarship support for the entire Medical degree studies | June 2012

Languages

- ✓ **Persian:** Native
- ✓ **English:** Fluent; IELTS overall score 7.5, March 2017
- ✓ **Azerbaijani Turkish:** Native
- ✓ **German:** Elementary
- ✓ **Arabic:** Elementary knowledge

References

- Jonathan Wolpaw, M.D.

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- Shahriar Nafissi M.D.

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