

# Curriculum Vitae Of Iman Ghodratoostani



Iman Ghodratoostani

Birth Date: 11/Sep/1982

Birth Place: Tehran

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Address: Rua São Joaquim, #2151, Vila Monteiro, São Carlos, São Paulo, Brazil.  
zip code: 13560-300

## PROFILE

Ambitious and driven professional with expert knowledge of the Neurosciences, Cognitive Sciences, Medical informatics, and healthcare sectors coupled with astute business acumen. Expert in Neurocognitive Computing and multidisciplinary projects in cognitive rehabilitation. Robust system analyzing skills, strategic planning, and Innovative. A self-starter can work efficiently on his own initiative or can integrate easily into a team environment.

## JOURNAL PUBLICATION

1. Iman Ghodratoostani, Zahra Vaziri, Milton Miranda Neto et al. "**Conceptual framework for Tinnitus: A cognitive model in practice**", 26 June 2023, PREPRINT, available at Research Square [https://doi.org/10.21203/rs.3.rs-3071328/v1]
2. Vaziri, Zahra, Carlos E. G. Salmon, **Iman Ghodratoostani**, Antonio Carlos dos Santos, Miguel A. Hyppolito, Alexandre C. B. Delbem, and João P. Leite. 2023. "**Down-Regulation of Tinnitus Negative Valence via Concurrent HD-tDCS and PEI Technique: A Pilot Study**" Brain Sciences 13, no. 5: 826. https://doi.org/10.3390/brainsci13050826.
3. **I. Ghodratoostani\***, O.A.G Junior, Z. Vaziri, A.C.B Delbem, B. Makki Abadi, A. Datta, C. Thomas, M.A. Hyppolito, A.C.D. Santos, F. Louzada, & J.P. Leite; "**Dose-response transcranial Electrical Stimulation study design: A well-controlled Adaptive Seamless Bayesian Method to illuminate negative valence role in tinnitus perception.**" Frontiers in Human Neuroscience. 2022, May 12, DOI: http://doi.org/10.3389/fnhum.2022.811550.
4. H. Ekhtiari, ..., **I. Ghodratoostani**, ..., et al. "**A Checklist for Assessing the Methodological Quality of Concurrent tES-fMRI Studies (ContES Checklist): A Consensus Study and Statement.**" " Nature Protocols (2022): 1-24; DOI: http://doi.org/10.1038/s41596-021-00664-5
5. Z. Vaziri, M. Nami, J.P. Leite, A. C. B. Delbem, M.A. Hyppolito, & **I. Ghodratoostani**; "**Conceptual Framework for Insomnia: A Cognitive Model in Practice.**" Frontiers in neuroscience. 2021;15(781). DOI: http://doi.org/10.3389/fnins.2021.628836
6. M. Bikson, ..., **I. Ghodratoostani**, ..., H. Ekhtiari; "**Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic**", Brain Stimulation. 2020 May 12th. DOI: http://doi.org/10.1016/j.brs.2020.05.010
7. T.E.G. Santos, D.B Favoretto, **I. Ghodratoostani**, D. Nascimento, B.P. Rimoli, E. Bergonzoni, T.W. Lemos, D.Q. Truong, A.C.B. Delbem, B. Makkiabadi, R. Moraes, F. Louzada, M. Bikson, J.P Leite, D.J Edwards; "**Manipulation of human verticality using high-definition transcranial direct current stimulation,**" Frontiers in neurology 9 (2018): 825. DOI: http://doi.org/10.3389/fneur.2018.00825.
8. **I. Ghodratoostani**, M. Nami, T.G. Sanchez, A.C. B. Delbem; "**The Sleep Toll in Tinnitus: A Brief Review Based on the Neurofunctional Tinnitus Model,**" JAMAAT. 2017; 3 (4): 189-196, DOI: http://doi.org/10.32598/JAMSAT.3.4.189.
9. **I. Ghodratoostani**, Y. Zana, A.C.B. Delbem, S.S. Sani, H. Ekhtiari and T.G. Sanchez; "**Theoretical Tinnitus framework: A Neurofunctional Model,**" (2016), " Frontiers in Neuroscience 10 (2016): 370. DOI: http://doi.org/10.3389/fnins.2016.00370.
10. H. Rasoulof, M.R. Barideh, **I. Ghodratoostani**, S. Jafari, R. Shoari, M. Nami; "**Prioritizing Problem-Solving Strategies in Parents of Children with Autism Spectrum Disorder; Initial Report from the SMART Initiative,**" Journal of Advanced Medical Sciences and Applied Technologies 2016;2(1): 181-189. DOI: http://doi.org/10.18869/NRIP.JAMSAT.2.3.268.
11. **I. Ghodratoostani**, A.C.B. Delbem, M. Torabi-Nami, B. Makkiabadi, H. Jalilvand, T.G. Sanchez; "**Theoretical Tinnitus Multimodality Framework: A Neurofunctional Model.**" Journal of Advanced Medical Sciences and Applied Technologies 2016;2(1): 181-189. DOI: http://doi.org/10.18869/NRIP.JAMSAT.2.1.181.
12. E. Rezayat, **I. Ghodratoostani**; "**Review Paper: A Review on Brain Stimulation Using Low Intensity Focused Ultrasound.**" Basic and Clinical Neuroscience 7.3 (2016): 187-194. DOI: http://doi.org/10.15412/J.BCN.03070303.

# Curriculum Vitae Of Iman Ghodratoostani

13. H. Farrokhi, **I. Ghodratoostani**, M. Farasatkah, H. Ekhtiari. "Sustainable Development of Cognitive Science and Technology Ecosystem; an Overview to the "Human Brain Project" as a Functioning Sample." Basic and Clinical Neuroscience. 2014;5(1):4-10.

## CONFERENCE

## PRESENTATION

1. **I. Ghodratoostani**; "The necessity of Neuromarketing in an academic and business environment," Invited Lecture, 1<sup>st</sup> international conference on consumer behavior and neuromarketing in MENA region, Tehran, Iran, 2023, May 10<sup>th</sup>.
2. **I. Ghodratoostani**; "Research Design in Neuromarketing," Invited Lecture, Lab session trainer, 1<sup>st</sup> international conference on consumer behavior and neuromarketing in MENA region, Tehran, Iran, 2023, May 10<sup>th</sup>.
3. **I. Ghodratoostani**; "Measuring Audience engagement," Invited Lecture, Lab session trainer, 1<sup>st</sup> international conference on consumer behavior and neuromarketing in MENA region, Tehran, Iran, 2023, May 11<sup>th</sup>.
4. **I. Ghodratoostani**; "The necessity of Neuromarketing in an academic and business environment," Invited Lecture, 1<sup>st</sup> international conference on consumer behavior and neuromarketing in MENA region, Tehran, Iran, 2023, May 10<sup>th</sup>.
5. **I. Ghodratoostani**; "Dose-response transcranial Electrical Stimulation study," Invited Lecture, Society for Brain Mapping & Therapeutics - SBMT, LA, USA 2022, March 11th.
6. **I. Ghodratoostani**; "Neurocognitive Computing," Invited Lecture, N20-Society for Brain Mapping & Therapeutics - SBMT, Rome, Italy 2021, October 31st.
7. **I. Ghodratoostani**, O.A. Gonzatto Junior, Z. Vaziri, A. CB. Delbem, B. Makkiabadi, A. Datta, C. Thomas, M. A. Hyppolito, A. CD. Santos, F. Louzada, and J.P. Leite; "Dose-response transcranial Electrical Stimulation study design: A well-controlled Adaptive Seamless Bayesian Method to illuminate negative valence role in tinnitus perception.", Invited Lecture, IBNeC, 2021.

## CONFERENCE

## PRESENTATION

8. **I. Ghodratoostani**; "Neuro-Cognitive Rehabilitation in Attention Disorders; The Role of Modern Technologies," (2021), 17/18 Annual meeting of Society for Brain Mapping and Therapeutics, Los Angeles, California, USA, July 8th.
9. **I. Ghodratoostani**, E.A.P. Gomes, Z.S. Vaziri; "Developing Dynamic Platforms in Social Responsibilities," (2021), the International USR Summit, Virtual Conference, South Africa, February 5th.
10. Z.S. Vaziri, M.M. Neto, M. Colacique, V.M.M. Martins, M. Ghahery, F. Louzada, & **I. Ghodratoostani**; "Modulation of Tinnitus-Related Emotional Processing and Its Effects on Attentional Bias: A model validation study." (2020). 13th International Tinnitus Research Initiative (TRI) conference, Vancouver, Canada, May.
11. Z.S. Vaziri, **I. Ghodratoostani**, A.C.B. Delbem, C.G.C. Barros, M.A. Hyppolito, A.A. Oliveira; "Conceptual Cognitive Model for Tinnitus-Insomnia Comorbidity." (2020). 13th International Tinnitus Research Initiative (TRI) conference, Vancouver, Canada, May.
12. **I. Ghodratoostani**, Z.S. Vaziri, E.A.P. Gomes, A.C.B. Delbem, C.G.C. Barros, & J.P. Leite; "Neurofunctional Tinnitus Model Validation; To investigate cognitive processes causality in clinical distress stage" (2020). 13th International Tinnitus Research Initiative (TRI) conference, Vancouver, Canada, May.
13. C. Thomas, **I. Ghodratoostani**, A.C.B. Delbem, A. Ali, & A. Datta." IEEE. Influence of gender-related differences in transcranial direct current stimulation: A Computational Study." In 2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2019 July 23rd (pp. 5196-5199).
14. F.S. Otsuka, C.E. Garrido-Salmo, **I. Ghodratoostani**, Z.S Vaziri, R. Maatsuda, A. Datta, C. Thomas; "Magnetic Field Mapping for Transcranial Direct Current Stimulation on human brain: a preliminary study," International Society for Magnetic Resonance in Medicine (ISMRM) 2020 August 13th, Virtual Conference and Exhibition
15. **I. Ghodratoostani**, Z. Vazirikangolya, D. Nascimento, M. Colacique, F. Louzada, A. Delbem, C. Barros, A. Oliveira, M. Hyppolito, J. Leite; "Anodal HD-tDCS of left dlPFC together with Positive Emotion Induction Can Modulate Tinnitus Loudness," Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation 12.2 (2019): 470.DOI:10.1016/j.brs.2018.12.532.
16. **I. Ghodratoostani**, H. Jalilyvand, A.C.B. Delbem, Z. Vaziri, C.G.C. Barros, M.A. Hyppolito; "Considering Psychoacoustic Parameters Contribution is Sufficient in Predicting Gain Preference." (2018). 11th International Tinnitus Research Initiative (TRI) conference, Germany, Regensburg, March
17. Z. Vaziri, **I. Ghodratoostani**, M. Nami, A.C.B. Delbem, J.P. Leite; "The Contribution of Tinnitus Negative Valence in Sleep-threat Development." (2018). 11th International Tinnitus Research Initiative (TRI) conference, Germany, Regensburg, March.
18. **I. Ghodratoostani**, Z. Vaziri, D.C. Nascimento, M. Colacique, F. Louzada, A.C.B Delbem, C.G.C. Barros, A.A. Oliveira, M.A. Hyppolito, J.P. Leite; "The Effect of Positive Emotion Induction and H.D.- tDCS on Tinnitus

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- Loudness Scale.**" (2018). 11th International Tinnitus Research Initiative (TRI) conference, Germany, Regensburg, March.
19. D. Nascimento, F. Lozada, **I. Ghodratoostani**, Z. Vaziri; **"Copula bivariate model: Predictive Analytics on estimation tinnitus psychoacoustic parameters."** (2018). January
20. **I. Ghodratoostani**, H. Jalilvand, A.C.B. Delbem, and T.G. Sanchez; **"Decision support system can improve accuracy and time efficacy evaluation of tinnitus psychoacoustic parameters,"** (2016), 10<sup>th</sup> International TRI Tinnitus Conference, UK, Nottingham, March.
21. **I. Ghodratoostani**, Y. Zana, A.C.B. Delbem, S.S. Sani, H. Ekhtiari and T.G. Sanchez; **"Neurofunctional Tinnitus model: A cognitive way to explain the development of tinnitus distress from a neutral phantom sound,"** (2016), 10<sup>th</sup> International TRI Tinnitus Conference, UK, Nottingham, March.
22. **I. Ghodratoostani**, H. Ekhtiari, A. Delbem, **"TINNITUS NEUROFUNCTIONAL MODEL AS A TESTABLE THEORETICAL FRAMEWORK FOR BRAIN MAPPING,"** (2015), 1<sup>st</sup> Latin America Brain Mapping Network Meeting (LABMAN), Brazil, SP, Sao Paulo, March
23. **I. Ghodratoostani**, A. Delbem, T.G. Sanchez, H. Ekhtiari, **"Framework model of Transcranial Electrical Stimulation (TES) research trials to clinical protocol recommendation,"** (2015), International Conference on Clinical Trials, USA, Florida, Orlando, July.
24. **I. Ghodratoostani**, A. Delbem, T.G. Sanchez, **"IS CURRENT CLINICAL ASSESSMENT ADEQUATE TO EVALUATE TINNITUS BOTHERSOME?"**, (2015), 9<sup>th</sup> International TRI Tinnitus Conference, USA, Ann Arbor, June.
25. **I. Ghodratoostani**, H. Ekhtiari, N. Jangholi, A.C.B. Delbem; **"TINNITUS NEUROFUNCTIONAL MODEL: EMERGENCE OF THE ROLE OF ATTENTION ALLOCATION AND PHANTOM SOUND VALUATION ON THE CLINICAL TINNITUS SYMPTOMS,"** (2014), Poster, VI International Symposium on Neuromodulation, São Paulo, Brazil, August.
26. **I. Ghodratoostani**, H. Ekhtiari, N. Jangholi, A.C.B. Delbem, **"Tinnitus Neurofunctional Model: Tinnitus Clinical Symptoms Generation And Maintenance,"** (2014), 38<sup>th</sup> SBNeC congress, Brazil, R.J., Búzios.
27. N. Jangholi, **I. Ghodratoostani**, Claessens. P. M. E, **"The Relation Between Tinnitus Loudness, Sleep Disorders And Emotional Distress,"** (2014), 8<sup>th</sup> International TRI Tinnitus Conference, New Zealand, Auckland, April,
28. **I. Ghodratoostani**, A. Fattahzade, N. Jangholi; **"Tinnitus Clinical Symptoms Generation And Maintenance,"** (2014), 8<sup>th</sup> International TRI Tinnitus Conference, New Zealand, Auckland, April,
29. N. Jangholi, **I. Ghodratoostani**, P.M.E. Claessens; **"No evidence for a relationship between subjective tinnitus loudness and psychological factors,"** (2013), 2<sup>nd</sup> Basic and Clinical Neuroscience Congress, Iran, Tehran, October.
30. **I. Ghodratoostani**, **"Confirmatory Study for a Neurofunctional Tinnitus Model using tDCS and rsfMRI,"** (2013), 2<sup>nd</sup> Basic and Clinical Neuroscience Congress, Iran, Tehran, October.
31. **I. Ghodratoostani**, **"The role of the top-down attention process in tinnitus initialization,"** (2013), 2<sup>nd</sup> Basic and Clinical Neuroscience Congress, Iran, Tehran, October.
32. N. Jangholi, **I. Ghodratoostani**, P.M.E. Claessens; **"Subjective tinnitus loudness is not associated with impairment in quality of sleep,"** (2013), 2<sup>nd</sup> Brazilian Meeting on Brain and Cognition, Brazil, Santo Andre, September.
33. **I. Ghodratoostani**, Y. Zana; **"Clinically-Significant Tinnitus Symptoms: The Role of Top-Down Cognitive Processes "**, (2013), 7<sup>th</sup> conference Tinnitus research, Spain, Valencia, May.
34. **I. Ghodratoostani**, M. Pouladian, S. Mahmoudian, M. Farhadi; **"the Acoustical behavior of auditory system,"** (2008), IASTED, Austria, Innsbruck, February.
35. **I. Ghodratoostani**, M. Pouladian; **"Acostico-Mathematical Model of the auditory system,"** (2007), 6<sup>th</sup> Audiology conference, Iran, Tehran, April.
36. **I. Ghodratoostani**, G. Ghaffari, N. Afshar; **"Frequency based effective methods in Tinnitus treatments,"** (2007), 6<sup>th</sup> Audiology conference, Poster, Iran, Tehran, April.
37. M. Delphi, **I. Ghodratoostani**; **"Monitoring of the effect of electrical current stimulation in elder tinnitus patients based on TQ-questionnaires,"** (2007), 11<sup>th</sup> student conference of audiology, Iran, Tehran, November.
38. M. Delphi, **I. Ghodratoostani**, **"Clinical evaluation of aged patients with a chronic vestibular disorder,"** (2007), 1<sup>st</sup> Aged Rehabilitation Conference, Poster, Iran, Tehran, December.
39. M. Delphi, **I. Ghodratoostani**; **"Management procedures of Tinnitus rehabilitation in aged patients,"** (2007), 1<sup>st</sup> Aged Rehabilitation Conference, Poster, Iran, Tehran, December.
40. **I. Ghodratoostani**, M. Pouladian; **"The middle Ear pressure reg, "ion,"** (2006), wc2006 conference, 4116, Korea, Seoul, August.
41. **I. Ghodratoostani**, M. Pouladian; **"the Acoustical behavior of the auditory system,"** (2006), wc2006 conference, 4100, Korea, Seoul, August.
42. M.K. Pournizam, **I. Ghodratoostani**, S. Karimi-Dardashti, M. Pouladian; **"Electrocochleography,"** (2006), wc2006 conference, 4809, Korea, Seoul, August
43. S. Karimi-Dardashti, **I. Ghodratoostani**, M.K. Pournizam, M. Pouladian; **"Artificial Auditory system,"** (2006), wc2006 conference, 4910, Korea, Seoul, August

CONFERENCE  
PRESENTATION

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44. **I. Ghodratoostani**, A. Gholami, A. Moein, E. Ghadimi; "**WIH technology**," (2006), Telemedicine and E-Health conference, Shahid Beheshti University, Iran, Tehran, November.
45. S. Fazli. S, **I. Ghodratoostani**, I. Keramati; "**Electrical patient records**," (2006), Telemedicine and E-Health conference, Shahid Beheshti University, Iran, Tehran, November.
46. M. Bagheri. M, S. Fazli, **I. Ghodratoostani**; "**3-D image processing methods for intelligent diagnosis**", (2006), Telemedicine and E-Health conference, Shahid Beheshti University, Iran, Tehran, November.
47. **I. Ghodratoostani**, M. Pouladian, "**Acoustical auditory system model**," (2005), EPSM conference, Australia, Adelaide, October.
48. S. Parvaneh, **I. Ghodratoostani**, A. Gharaviri; "**electrical 2-D cochlear model** ", (2004), ISCEE2004 conference, Iran, Tehran.

## SCIENTIFIC PODCAST

1. Ghodratoostani, I. (2022, August 17). **\*\*Cognitive Neuroscience: Adaptive Seamless Design for tES Dose-Response in Emotion Regulation: a pilot study in Tinnitus Population.** The Neurocognitive Engineering Laboratory Podcast. Retrieved from <https://www.researcher-app.com/paper/12050633>.
2. Ghodratoostani, I. (2022, July 13). **\*\*Cognitive Neuroscience: Conceptual Framework for Insomnia: A Cognitive Model in Practice.** The Neurocognitive Engineering Laboratory Podcast. Retrieved from <https://www.researcher-app.com/paper/12668589>.

## EDUCATION

**PHD** Jan 2016- Aug 2022  
 Institute of Mathematics and computers, Neurocognitive Engineering Laboratory/ Cognitive Science  
 USP, Brazil, São Paulo, São Carlos  
 The Title of the Thesis is  
**“ Neurocognitive Computing platform: Prototype in tinnitus rehabilitation throughout emotion regulation concurrent with high definition transcranial direct current stimulation as a neuromodulation technique.”**

## EDUCATION

**Master of Science** May 2011- Apr 2013  
 Neuroscience and cognition  
 UFABC, Brazil, São Paulo, Santo André  
 The Title of Thesis **“Tinnitus: A Neurofunctional Model”**

**Bachelor of Science** Sep 2001- Sep 2005  
 Biomedical Engineering  
 Islamic Azad University (Sciences and research branch), Iran, The thesis title is  
**“Acoustical Modelling of the auditory system.”**

## CAREER HISTORY

**Director of Research and Development unit** March 2023-Now  
 (On-Site)  
 Arman Rahavard, Iran, Tehran.  
 Add: Palestine str, No 353, 6<sup>th</sup> floor, apt 21, Tehran, Iran

### *Duties Included:*

- ◆ Director of Neurotech knowledge based projects
- ◆ Educational dissemination organization
- ◆ Research proposal projection
- ◆ Business Development
- ◆ feasibility study and business plan preparation
- ◆ system design and analysis
- ◆ International communication
- ◆ Scientific presentation and materials preparation
- ◆ Founder of Educational Expert Platform Project (Online LMS for experts)
- ◆ Founder of Neuromarketing

### **Senior Researcher**

Jun 2016 – Sep 2022

Neurocognitive Engineering Laboratory (NEL), University of São Paulo, São Carlo, Brazil

### *Duties Included:*

- ◆ Director of Multidisciplinary Tinnitus Rehabilitation (MTR)
- ◆ Educational dissemination organization
- ◆ Research proposal projection
- ◆ Research and Development Director
- ◆ system analyzing

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**Director of research and development unit**

April 2019 – Now  
On-line (part-time)

HC Matrix Technology LTDA, SP, São Carlos, Brazil  
ADD: Rua São Joaquim, #2151, Vila Monteiro, CEP:13560-300

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*Duties Include:*

- ♦ Business Development
- ♦ feasibility study and business plan preparation
- ♦ system design and analysis
- ♦ International communication
- ♦ Scientific presentation and materials preparation
- ♦ Project management (CovidMatrix, and TripMatrix)

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**Senior Researcher**

Jun 2010 – Dec 2015

Fannavarán Gostaresh Salaamat(FGSCO) company, Iran, Tehran  
ADD: Azady Street, South Jamalzadeh, NO.156

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*Duties Included:*

- ♦ Business Development
- ♦ feasibility study and business plan publishing
- ♦ system analyzing
- ♦ project management (Tinnitus evaluation assessment)

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**Director of research and development unit**

May 2011 - June 2013  
(On-Line)

Neurophoneme LLC,  
USA, CA, Los Angeles  
ADD: 6301 Glade Avenue, Apt K-317, Woodland Hills, CA 91367

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*Duties Included:*

- ♦ Business Development
- ♦ feasibility study and business plan publishing
- ♦ system analyzing
- ♦ project management (Tinnitus evaluation assessment)

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**Director of research and development unit & Managing director**

Aug 2006 - Aug 2009

Fannavarán Gostaresh Salaamat(FGSCO) company,  
Iran, Tehran  
ADD: Azady Street, Sharif university, Sharif Advance, Research, and development unit

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*Duties Included:*

- ♦ Business Development
- ♦ feasibility study and business plan publishing
- ♦ team arrangement for each project
- ♦ pre-contract technical data preparation
- ♦ system analyzing
- ♦ project management (in some cases)

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**Technical manager and technical supervisor**  
(part-Time)

Mar 2009 – May 2010

Hearing Technology co company, Iran, Tehran

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*Duties Included:*

- ♦ management of setup and device initializing
- ♦ supervision to meet MOH rules
- ♦ feasibility study of product line for Hearing aid, Audiometer & ENT Unit
- ♦ Attend training course of mother companies.

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**Research and development Advisor** (part-Time)

Feb 2009 - May 2010

NEDA Institute of Hearing Sciences study and research Iran, Tehran

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*Duties Included:*

- ◆ Organization chart Designing
- ◆ Define a new clinical Research project
- ◆ Collect training documents for workshops
- ◆ Supervisor of audiologist

**Researcher Assistant**

May 2004 – Sep 2004

Pouyandegan Rah Saadat corporation, Iran, Tehran

*Duties Included:*

- ◆ Medical Standard “IEC60-601” review and translation
- ◆ Research on Bluetooth and Wi-Fi wireless Technologies usage in medical devices infra-  
instruction and protocols

Selected and awarded by Johannesburg Institute for Advanced Study (JIAS) for a travel grant and accommodation to participate in “**Colloquium on the brain, why the brain matters?**” October and November, South Africa, Johannesburg. (2016)

Selected and awarded by International Brain Research Institute Organization (IBRO), For organizing a 3-day workshop in “**Tinnitus Neurocognitive Approaches from Diagnostic To Rehabilitation (TiNA-D2R)**”, Parallel in Brazil and Iran, May 20th to 22<sup>nd</sup> (2016)

Selected and awarded by MRC Institute of Hearing Research Early Career Awards, to participation in “**10<sup>th</sup> International Tinnitus Research Initiative conference**”, March 16th to 18<sup>th</sup>, Nottingham, UK (2016)

Selected and awarded by Electrical Geodesics. Inc (EGI), for Summer school in “**Foundations of Advanced dEEG Analysis Techniques**,” August 17th to 19<sup>th</sup>, Eugene, Oregon, USA (2015)

Selected and awarded by Electrical Geodesics. Inc (EGI), for Summer school in “**Core dEEG Skills**,” August 10th to 15<sup>th</sup>, Eugene, Oregon, USA (2016)

Selected and Awarded by Brazilian National Research Council (CNPQ), for Summer school in “**Physics and Neuroscience**,” August 11th to 17<sup>th</sup>, Natal, Rio Grande Do Norte, Brazil (2014)

Selected and Awarded as the “**Youngest dominant Entrepreneur in the research field**” (2007-2008)

Selected as top 20 Business Plans, “**entrepreneurship competition area**,” Santander Bank, Sao Paulo, (2011)

## Awards

Ghodratoostani. I, Mahmoudian. S,  
***(Tinnitus Evaluation and simulation device)***, “**Tined**,”  
Iran patent number **44868**

17<sup>th</sup>  
December of  
2007

## INVENTIONS

Ghodratoostani. I, Mahmoudian. S, Farhadi. M, Beyti. S,  
***(Brain Anatomical & functional images co-registration system software)***, “**BrainAFICS**,”  
Iran patent number **55803**

2<sup>nd</sup>  
January  
of 2009

1. Ghodratoostani. I, Hyppolito. M.A, Vaziri. Z.S., C.B Delbem. A, P Leite. J; “**Cognitive Rehabilitation Platform**; Clinical Trial in brain mapping -resting state dens array EEG/ EEG-fMRI,” Doing Project with 1,000.000.00 Brazilian Reals + 300.000 US\$- Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos. (2017-current).
2. Ghodratoostani. I, C.B Delbem. An A.P Gomes E; “ **Unsupervised Cognitive Computing MATLAB-Toolbox**; data preprocessing, data mining, predictive modeling, perspective analysis, and deep learning. Doing Project \_Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos. (2018-current).

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## RESEARCH PROJECTS (GRANT RECEIVE):

3. Ghodratitoostani, I., C.B Delbem. A, M. Neto. M; Louzada. F; “ **Supervised Knowledge transfer through merging models in Cognitive Computing R-Toolbox**; supervised merging generalized linear mixed model to knowledge transfer between segment-models, Doing Project \_Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos. (2018-current).
4. Ghodratitoostani, I., C.B Delbem. A Vaziri. Z.S., P Leite. J; “ **Causality and conditional supervised modeling in Cognitive Computing SPSS-Toolbox**; Moderator and mediator, conditional modeling, to improve our prediction in comorbidities and possible complex symptoms, Doing Project \_Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos. (2018-current).
5. Ghodratitoostani, I., A.G Junior. O, Louzada. F, Hyppolito. M.A, Vaziri. Z.S., C.B Delbem. A, P Leite. J; “ **Dose-response transcranial Electrical Stimulation study design: A well-controlled Adaptive Seamless Bayesian Method to illuminate negative valence role**; Cohort prospective Clinical Trial in brain mapping -resting state dens array EEG/ EEG-fMRI”, Doing Project with 100.000.00 Brazilian Reals -Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos. (2017-current).
6. Ghodratitoostani, I., C.B Delbem. A; “**Screening Kiosk Project**; Prototyping Screening Kiosk in Shopping centers, Clinics and Drugstores for the Hearing system as the pilot and Cognitive Performances, Doing Project with 200.000.00 Brazilian Reals- Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos. (2017-current).
7. Ghodratitoostani, I., C.B Delbem. Hyppolito. M.A, Sani. S; “**Double Blind clinical study in Hearing aids Technology between High-end Digital and Digitally-Programmable Analog Devices**; Design and leading Clinical Trial in Evaluating the technology performance and patients satisfaction on Brazilian society, Doing Project with 60.000.00 Brazilian Reals- Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos, 95.000.00 Brazilian Reals direct from Sao Paulo Research Foundation (FAPESP) and 160.000.00 US Dollars from World Hearing Organization Company from Silicon Valley, San Jose, CA, USA.(2017-current),
8. Ghodratitoostani, I., C.B Delbem. A; “**Multidisciplinary Tinnitus rehabilitation (MTR) project**; Clinical Trial in brain mapping -resting state dens array EEG/ EEG-fMRI,” Doing Project with 200.000.00 Brazilian Reals- Grant number “**2013/07375-0**”, Innovation and Diffusion of Mathematical Sciences Center Applied to Industry (CEPID-CeMEAI) of Sao Paulo Research Foundation (FAPESP), based at the Institute of Mathematics and Computer Sciences (ICMC) USP São Carlos. (2015-current),
9. Ghodratitoostani, I., “**Tin. Ease: implementation of the Tinnitus Electrical and Acoustical Hardware and Software prototype**”, Doing Project with 800.000.000Rial –grant (financial fund) with collaborated and supported by’ Fannavarán Gostaresh Salaamat (FGSco) R&D’as technical response, plus, collaborated of, ‘ear, nose, throat, head & neck surgery & Audiology department of Behzisty University of Medical Sciences as Clinical response. (2010)
10. Ghodratitoostani, I., Mahmoudian. S,” **Tined: implementation of the Tinnitus Evaluation and Simulation Hardware and Software prototype**,” Doing Project with 200.000.000Rial –grant (financial fund) with collaborated and supported By’ Fannavarán Gostaresh Salaamat(FGSco) R&D,’ Clinical Trial has done with ‘ear, nose, throat, head & neck surgery research center, Iran University of Medical Sciences. (2007)
11. Farhadi. M, Ghodratitoostani, I., Mahmoudian. S, Beyti. S, “**BrainAFICS: Brain Anatomical & Functional Co-Registration System software**,” Doing Project with 460.000.000Rial –grant (financial fund) with collaborated and supported by’ Fannavarán Gostaresh Salaamat (FGSco) R&D’as technical response, plus, 90.000.000Rial- grant (Financial found) with collaborated and supported by, ‘ear, nose, throat, head & neck surgery research center, Iran University of Medical Sciences as Clinical response. (2007)
12. Farhadi. M, Ghodratitoostani, I., Mahmoudian. S, “**Design, Implementing and clinical trial of Rehabilitation Package of Patients Sufferers by Tinnitus (Hardware and Software with Central Data Bank) By Using of Biofeedback, Sound Therapy, and Multimedia Facilities**,” Doing Project with 670.000.000Rial –grant (financial fund) with collaborated and supported By’ Fannavarán Gostaresh Salaamat (FGSco) R&D’as technical response, plus, 365.000.000Rial- grant (Financial found) with collaborated and supported by, ‘ear, nose, throat, head & neck surgery research center, Iran University of Medical Sciences as Clinical response. (2006)

This project includes: designing and implementing a biofeedback device prototype for EEG, EMG & GSR, developing electrical patient records, music, and natural sound therapy software, and training multimedia clips for Tinnitus patients and clinical trials of finished prototype devices.

# Curriculum Vitae Of Iman Ghodratitoostani

## NONMEDICAL INDUSTRIAL PROJECTS

1. Ghodratitoostani. I, A.P Gomes E, Sheikhi. S; “ **CovidMatrix platform,**” Developing mainframe technology in Mobile application and server with DSS in the calculation of daily risk of the contract to Covid, Immunity Passport, Indoor, and outdoor hotspot regions, and suggesting Informative APIs for market segments and dashboards, Financed with H.C. Matrix technology, 100,000 US\$- São Carlos. (2020-current).
2. A “**SAFIR: Bluetooth system for proximity files sending and receiving,**” Doing Project with 70.000.000Rial – grant (financial fund) collaborated and ordered.’ Sheikhi. S, Ghodratitoostani. I., Goodarzi. ‘samaneh hooshmand mesbah’. Fannavarán Gostaresh Salaamat (FGSco) R&D’as developer response, plus, implemented, maintained, ‘(2007-2008)  
“it was done for obtaining into infra-instruction of the Bluetooth Technology for Medical usages ‘my responsibility was the project manager.’”
3. Sheikhi. S, Ghodratitoostani. I, Goodarzi. A Rafati. H, Gholami. A “**Smart card: personnel cards of Iran Scientific Audiology Association Member,**” Doing Project with 80.000.000Rial –was contracted and ordered by Scientific Audiology Association. Fannavarán Gostaresh Salaamat (FGSco) R&D’as developer response, plus, implemented, maintained, ‘(2007-2008)  
“It was done for obtaining into infra-instruction of the Health smart card for Medical usages ‘my responsibility was the project manager.’”

## COUNCIL

1. Innovation counselor of “University of UniMax, Indaiatuba, Sao Paulo, Brazil” July 2022- now.
2. Technical counselor of “ear, nose, throat, head & neck surgery research center, Iran University of Medical Sciences”.2007-2009.
3. Technical counselor of Tinnitus evaluation and Noise mapping of the” Khuzestan Steel Company,” 2008.
4. Equipped counselor of Audiology and ENT unit of” Velenjak Day-clinic,” 2007.
5. Counselor of “Iran Scientific Association of Audiology “in portal design, congress and member’s smart card, 2007.
6. Counselor of “Ministry of Health Instrumentation system, 2006.

## ATTENDED WORKSHOP

1. Knowledge Management, best practices “by Professor Alfis, KM director of Siemens 1998-2008”, Sharif University, Iran, Tehran, 2014
2. Clinical approaches of Transcranial Direct Current stimulation, IRSA, Iran, Tehran, 2013
3. Functional MRI image processing with FSL, IRSA, Iran, Tehran, 2013
4. Advanced cybernetics workshop, USP, Brazil, São Paulo, São Carlos, 2012
5. Computational Neuroscience Symposium, UFABC, Brazil, São Paulo, Santo André, 2011
6. Equipment Installation and Technical support for VNG, SPS, VHIT, and Balance systems in Synapsys Corporation, France, Marseille, November of 2009.
7. Equipment Installation and Technical support for Audiometer (calibration) and Sleep analysis device in Sibelmed Corporation, Spain, Barcelona, March of 2009.
8. Equipment Installation and Technical support for Hearing aids in Microson Corporation, Spain, Barcelona, March of 2009.
9. Equipment Installation and Technical support for Biopulsar device in Auramed Corporation, Germany, Rhine, March of 2009.
10. Project management fundamentals and basic knowledge, Sharif university, Iran, Tehran, 2007

## ACHIEVEMENTS

1. Honorable Scholar, Tehran Medical University of Medical Sciences, May 2023- Now.
2. Sports Cognitive Board member, Cognitive Sciences and technologies, July 2023- Now
3. Brazil delegation head in N20 to promote Neurotech investments in G20 countries, March 2021- Dec 2022
4. Research board member of Educational Expert platform, March 2023- Now
5. Invited Lecturer for AI in Institute of Cognitive Science Studies, June 2023- Current

1. **I. Ghodratitoostani**; “Introduction of Neurocognitive Computing architecture, pilot study”, strategies to select research topics in neuroscience and cognitive sciences, **Invited Lecturer**, Tehran, Iran, 2023, May 17<sup>th</sup>.
2. **I. Ghodratitoostani**; “1<sup>st</sup> international conference on consumer behavior and neuromarketing in MENA region”, **Scientific organizer**, Tehran, Iran, 2023, May 10<sup>th</sup> and 11<sup>th</sup>.
3. Ghodratitoostani. I; “Adaptive Seamless Design for tES Dose-Response in Emotion Regulation: A pilot study in Tinnitus Population.”, Online Podcast, Researcher application, August 18<sup>th</sup>, 2022.
4. Ghodratitoostani. I; “ Neurofunctional Tinnitus Model,” Tinnitus summit, August 2022, Sao Paulo, Brazil.
5. Ghodratitoostani. I; “ Conceptual Cognitive Model of Tinnitus,” Tinnitus summit, August 2022, Sao Paulo, Brazil.

# Curriculum Vitae Of Iman Ghodratoostani

## WORKSHOPS AND PANELS PRESENTER

6. Ghodratoostani. I; “Dose-Response study design in Emotion regulation and transcranial electrical stimulation; Pilot in Tinnitus population,” Tinnitus summit, August 2022, Sao Paulo, Brazil.
7. Caurin. G, Foss. M.P, Nami, M, & Godratoostani. I (Round table moderator); ” Virtual Reality Application in Multidimensional Emotion Regulation,” Brazilian Institute of Neuropsychology and Behavior (IBNeC), 2021.
8. Ghodratoostani. I, Chairman of the Brazilian scientists' session in N20-G20 online Summit for policy making in Neurotech, November 2021, Rome, Italy.
9. Vale. P, Nami. M, Safari. M.S, Fadardi J.S, Ghodratoostani. I (Panel Moderator); “COVID-19 brought to the surface the fact that universities still have work to do in their engagement with Social Responsibility, especially in the ways they promote safe social interactional behavior”, (2021), the International USR Summit, Virtual Conference, South Africa, February 4th. [Panel moderator]
10. Ghodratoostani. I, “NEL Introduction-Integrated cognitive Rehabilitation platform,” (2020), Center of Applied engineering in healthcare, School of Engineering of Sao Carlos, 26<sup>th</sup>of November, University of Sao Paulo, Brazil.
11. Ghodratoostani. I, “Journey from cognitive impairment detection to the rehabilitation via noninvasive brain stimulation (NIBS), demonstrated Technology-Methodology-driven approaches, ”(2019), NEL-ACNLab (joint meeting between USP and Illinois), Faculty of Medicine of Ribeirao Preto (FMRP), 25<sup>th</sup>of November, University of Sao Paulo, Brazil.
12. Ghodratoostani. I, “ Journey from cognitive impairment detection to the rehabilitation via noninvasive brain stimulation (NIBS): Introducing a Conceptual framework,” (2019), EEG Workshop, Johannesburg Institute for advanced Sciences (JIAS), 24<sup>th</sup>of October, University of Johannesburg, South Africa.
13. Ghodratoostani. I, “Neurofunctional Tinnitus model,” (2016), TiNA-D2R, Instituto Ganz Sanchez, May 20th, Brazil, São Paulo. [Scientific organizer]
14. Ghodratoostani. I, “Neurofunctional Model as novel research manifest in cognitive science; Tinnitus Neurofunctional model as the pilot,” (2016), Oxford Brookes University, March 23rd, U.K., OXFORD.
15. Ghodratoostani. I, “Neurofunctional Model as novel research manifest in cognitive science,” (2016), Brain management week, Shiraz Medical University, March 1st, Iran, Shiraz.
16. Ghodratoostani. I, “Attention Role in Autism,” (2016), Brain management week, Shiraz Medical University, March 1st, Iran, Shiraz.
17. Ghodratoostani. I, “Transcranial Current Stimulation and Modification in Cognitive Processing; Potential Mechanisms, Technical Challenges and Future Horizons”, (2014), , XXXVIII Annual Meeting of SBNeC (Sociedade Brasileira de Neurociência e Comportamento), Búzios, RJ, Brazil, September.
18. Ghodratoostani. I, “Tinnitus diagnosis Workshop,” (2014), Iraq, Sulaymaniyah, July.
19. Ghodratoostani. I, “Tinnitus Treatment Workshop,” (2014), Iraq, Sulaymaniyah, July.
20. Ghodratoostani. I, “Tinnitus evaluation Workshop,” (2013), Sulaymaniyah medical university, Iraq, Sulaymaniyah, May.
21. Ghodratoostani. I,” Functional-Anatomical imaging and fusion can help to early Alzheimer diagnosis,” Alzheimer seminar panel, 22<sup>nd</sup> January of 2009, Iran, Tehran, Behzisty University.
22. Ghodratoostani. I, Gholami. A., Moein. A Ghadimi. E, “WIH technology Demo implementation for ECG signals,” (2006), Telemedicine and E-Health Workshop, Shahid Beheshti University, Iran, Tehran, November.

### Interpersonal

Strong interpersonal skills gained from extensive study and clinical experience through various research projects. A favorable position lends to positions where rapport & relationship building is required, and ethical handling of sensitive information and people is essential.

### Team-Working

An excellent team player, considerate and non-judgemental of team members' input and ideas. Also aims to build solid symbiotic relationships within a team environment to prioritize the team's performance.

### Self-Starter

# Curriculum Vitae Of Iman Ghodratoostani

## KEY SKILLS

	Adapts quickly and is capable of starting projects on their initiative. Works efficiently and effectively in a confidential environment with a common sense approach to dealing with the issue. Has the ability to ask for assistance if required or unsure.
<b>Networking</b>	Superb networker. A strong relationship builder; has the ability to encourage others to offer information and create situations where mutual benefits are clear. Straightforward and frank business dealings, clients have an ethical and reputable persona.
<b>Communication</b>	Exceptional communicational skills. Able to make people comfortable communicating freely and openly. Can easily share complex and abstract ideas—expert in non-verbal communication techniques such as mirroring, body language tuning, and good working knowledge.
<b>Leadership</b>	Knowledgeable in techniques and strategies in people management. An advocate of macro-management style, keen to delegate and build trust with colleagues. Intuitive with people's motivators and skilled at using these to get the best of our people.
<b>Organizational</b>	Works best in a highly organized environment. A proficient organizer can multi-task multiple projects to strict deadlines. Worked extracurricular on large projects liaising with organizations and project managing, ensuring the team worked efficiently.
<b>Familiar with Audiology Clinical Evaluation</b>	ABR (auditory brain stem response), steady-state response), ECoG (Electro Cochleography), VEMP (vestibular evoked myogenic potential), VNG (Video nystagmography), OAE (Otoacoustic Emission), PSP(posturography), Audiometry, tympanometry, Hearing-aids fitting, and Tinnitus Evaluation.
<b>LANGUAGES</b>	<ol style="list-style-type: none"> <li>1. Expert in English: Reading, speaking, writing &amp; speaking</li> <li>2. Familiar with French and Arabic</li> <li>3. Farsi is my native language</li> <li>4. Good in Turkish and Portuguese</li> </ol>
<b>Research Device Data acquisition Experiences</b>	<p><b>EEG-</b> hardware: EGI-Philips (256 channels), BrainProducts (Acticamp and Live amp), and in-house developed EEG electrodes Co-registration IR system; and software: Brainstorm, Fieldtrip, Brain Vision, BESA, and Net Station.</p> <p><b>MRI-</b> hardware: Philips (3T); and software: SPM12, FreeSurfer, FSL, and CONN.</p> <p><b>Biosignal Synchronizer-</b> hardware: Cedrus(StimTracker) and BrainProducts; and software: SuperLab, and PsychoPy.</p> <p><b>tDCS/tACS/tRNS-</b> hardware: Soterix Medical (High-definition, 32 channels), EGI, and TCT; and software: Head Modelling(HD-Target, HD-explore, and ComSol);</p> <p><b>rTMS-</b> Neurosoft, and Magstim. And in-house Neural Navigation</p> <p><b>Virtual Reality-</b> HTC-Vive Pro, Rift oculus, and HoloLens2</p>
<b>Information Technology</b>	Excellent and Expert in Python, MATLAB & Simulink, R, IBM-Modeler, IBM SPSS, C++ programming, MongoDB, Biostatistics, and LaTeX. Expert in using the internet as a tool for knowledge acquisition. Excellent skills in M.S. Word, MS Excel, MS Project, MS Access, MS Visio, Adobe Acrobat, Adobe Photoshop, Adobe Audition, and M.S. PowerPoint. Good working knowledge of hardware and standard software applications.

## INTERESTS & ACTIVITIES

Addicted to Innovation, I have a keen interest in music. I enjoy popular science and medicine and keep up to date with recent advances in these areas. I also have a good knowledge of Sociology.

## REFEREES

Available on Request