



Anahita Khorrami Banaraki

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## **Education:**

2006-2013                      Institute of Cognitive Science (ICSS), Tehran, Iran, PhD of Cognitive Neuroscience, Thesis: 'Event Related Potential effect of face and its parts on ERP component in Autism spectrum disorder comparing with control group', Advisor: Prof. Medi Tehrani-Doost (Child Psychiatrist)

2003-6Months                Fellowship of neuropsychology, Institute of cognitive science

2004-2007                      Amirkabir University of Technology (AUT), Tehran, Iran, Msc of Medical Information Technology, Thesis: 'design of protocol, signal recording and multichannels statistical analysis (ERP) for grading of sustained attention', Advisor: Prof. Seid Ali Seid-Salehi (Medical Engineer)

1991-1998                      Iran university of Medical Science, Tehran, Iran, MD, General Practitioner, Thesis: 'Electromyography of hands', Advisor: Prof. Babak Zamani (Neurologist)

## **Research Interest:**

Social cognition, Neuromarket, Face an object processing in Autism, Theory of mind and Executive function in kids and their developmental disorder, Effect of stress on judgment and its physiological assessment, Eye tracking and attention bias to emotional stimuli (specifically in kids and chronic pain,

addiction), TMS (empathy, working memory, aphasia), tDCS and working memory, Social Cognition Modeling, Cognitive Training, Cognitive style and Moral, Consciousness And Sub consciousness, Decision Making (Value based), Advanced Signal Processing.

## **Training:**

EEGLAB workshop primary and advance, Mallorca, Spain, 2011

Eyetracking'EYELINKII', Mallorca, Spain, 2011

TMS workshop, Nahas, Tehran, Iran, 2012

ASA LAB, Experiment Manager, ERP (signal analysisng), ANT, Netherland, 2011

## **Technical experience:**

EEG and ERP recording with Walter, Neuroscan and ANT

Signal processing with EEGLab and ASALab

Eyetracking recording with EYELinkII

EPrime

CANTAB

Neuropsychological assessment (Wechsler, Wisconsin, CPT, Benton,...)

TMS, Tdcs

## **Employment:**

**2017-Present      Private medical office. Neuropsychology assessment and cog.neuro rehabilitation.**

**2017-Present      Neuropsychology rehabilitation manager of Brain and Cognition Clinic**

**2014-2017      Researcher and Director of neuromarketing table**, Science and technology think tank of contemporary world.

2013-2014      **Assistant professor**, institute of cognitive science teaching methodology and research design for Ms Students of cognitive psychology

2013-2014      **Assistant professor**, institute of cognitive science teaching for PhD students of cognitive psychology modeling

2006-2013      **Research assistant**, Teaching methodology and research design for Ms Students of cognitive psychology, **PhD student of cognitive neuroscience**, Institute of cognitive science, Tehran, Iran.

2008-2013      **Manager of human cognitive neuroscience lab** of Institute of cognitive science (EEG, ERP, Eyetrack, TMS, tDCS, Neuropsychology tests)

2004-2007      **Msc student of Medical IT**, Amirkabir University of Technology

1998-2007      **Medical Practitioner**, Cognitive behavior Therapist and Hypnotherapist

## **Affiliation:**

1997-Present      Member of Islamic Republic of Iran Medial Council

2012-2014      Member of Iranian Neuroscience Society

2008-2010      Member of Iranian Academy of child & adolescent psychiatry

2010-2012      Firoozgar Hospital, Iran university of Medical science

2005-Present      Institute for Cognitive Science Study

2013-Present      Science and Technology Think Tank of Contemporary World

## **Teaching experience:**

Instructor, “MATLAB for behavioral study design”, Cognitive Psychology Department, Msc students, different workshop, ICSS (Institute for Cognitive Science Study), (2008-2011)

Workshop for neural network in cognitive study, Cognitive Neuroscience Department, PhD students, ICSS (Institute for Cognitive Science Study), (2008-2009)

Instructor, “Methodology and experimental design”, Cognitive Psychology Department, Msc students, ICSS (Institute for Cognitive Science Study), (2006-2014)

Instructor, “Physical Exam and Neurological Semiology”, Occupational Therapy Department, Msc students, Medical university of Iran, Rehabilitation faculty, (2007-2008)

Instructor, “Basic and Clinical Neuroscience”, Medicine students, Medical university of Iran, Firoozgar Hospital, (2009-2011)

Instructor, “Brain Stimulation in Neurological Disease ,TMS, tDCS”, Medicine students, Iran University of Medical Science , Firoozgar Hospital, (2011-2012)

Instructor, “Methods of Measurement and Assessment in Cognitive Science”, Cognitive Modeling Department, PhD Students, ICSS (Institute for Cognitive Science Study), (2013-2014)

## Ongoing Projects:

Mojtaba Ranjbar (PhD Biomedical Engineering), Mohammad Mikaili, **Anahita Khorrami** (Banaraki),” Single trial ERP extraction using a multi component model in order to investigate **the prioritization ability of human brain in discriminating the image and word stimuli**”, Shahed university, present.

Yasaman Bagherzadeh, Vahid Shariat, **Anahita Khorrami** (Banaraki), “ Effect of rTMS on improving working memory in normal group”, ICSS (Institute for Cognitive Science Study), present.

Maryam Soleiman-nejad, Mehdi Tehrani-Doost, **Anahita Khorrami** (Banaraki) “attention bias of addict people(Met and Morphine) to emotional scene comparing to normal group : an eyetracking study” Iran University of Medical Science, present.

## Honors and Awards:

2011-2013 Grant for Child Psychiatry Department, as a methodologist and executiveobserver participated in, Evaluation of understanding of mental state in primary school children using movement shape paradigm and assessment of its psychometric properties, Cognitive Neuroscience Lab and Department of Adolescence and child Psychiatry, Tehran university of medical science,.

2011-2013 Grant for Child Psychiatry Department, as a methodologist and executive observer participated in, Evaluation of the psychometric

properties of Happe strange stories in group of primary school children in Tehran, Cognitive Neuroscience Lab and Department of Adolescence and child Psychiatry, Tehran university of medical science.

### **Professional activity:**

Invitation for present in TEDxQAZVIN December 2014, Qazvin, Iran.

Invitation for neuromarket symposium in clinical and basic neuroscience conference October 2014, Tehran, Iran.

Invitation for neuromarket workshop in Brand Conference February 2014, Tehran, Iran.

Session Chair, Study design for neurodevelopment disorders by event related potentials, 4<sup>th</sup> international conference of cognitive science, 2013.

Invitation to lecture for summer school of cognitive science University of Shiraz, Theory of mind and its neural and cognitive structures, Shiraz, 2011.

Invitation for Key note speaker in 4<sup>th</sup> international adolescence and children psychiatry, Meshad, 2011.

Invitation to lecture for summer school of cognitive science University of Shiraz, Shiraz, 2009.

### **Advisor of Thesis:**

1. Shaghayegh Konjedi (Msc Cognitive Psychology), Javad Hatami, **Anahita Khorrami** (Banaraki), "Comparison of loss aversion decision making between overweight and normal weight individuals during choice of consumer food", ICSS (Institute for Cognitive Science Study), 2014.
2. Negar Karimi (Msc Cognitive Psychology), Javad Hatami, **Anahita Khorrami** (Banaraki)," Investigating the relationship between cognitive style and moral judgment " ,ICSS (Institute for Cognitive Science Study), 2014.
3. Zahra Sadat Ghoreishi (PhD Speech Therapy), Mojtaba Azimian, Javad alaghband-rad, **Aanahita Khorrami** (Banaraki), Seyed Majid Rafee, Mahyar Salavati, "Lexical access, verbal memory and speech motor action in post stroke aphasic patients and its relationship with language

organization in the brain: applying transcranial magnetic stimulation(TMS) and dichotic listening (DL)", University of Social Welfare and Rehabilitation, 2014.

4. Saman Seifpour (Msc Biomedical engineering), Mohammad Mikaili, **Anahita Khorrami** (Banaraki), Mohammad Torabi Nami, Khosro Sadeghniat, "Analysis of sleep EEG signals in order to extract CAP cycle and its change in process of learning", Shahed University, 2013.
5. Masoomah Mahmoodi Aghdam (Msc Cognitive Psychology), "Study on Selective Attention among Chronic Musculoskeletal Pain Patients by Using Eyetracking Device", ICSS (Institute for Cognitive Science Study), 2012.
6. Molood Sadat Safavi (Msc Linguistic), Shahla Rghib-Doodst, **Anahita Khorrami** (Banaraki) "Investigating structural and semantic processing of metaphor of Persian language through ERP", Alameh Tabatabayee University, 2012.
7. Seyed Hani Mosavi Mezerji (Msc Cognitive Psychology), Abdolhossein Sadeghi Marascht, Bahar Sadeghi Abdollahi, **Anahita Khorrami** (Banaraki), "Study of difference of confidence in decision making in men and women", ICSS (Institute for Cognitive Science Study), 2012.
8. Elahe Hashemi (Msc Cognitive Psychology), **Anahita Khorrami** (Banaraki), Abdolhossein Sadeghi Marasht "attention bias and Implicit attitude toward Iranian and non-Iranian face in an Iranian population", ICSS (Institute for Cognitive Science Study), 2012.
9. Ebrahim Pishyareh (PhD Cognitive neuroscience), Mehdi Tehrani-Doost, Javad Mahmoodi Gharaie, **Anahita Khorrami** (Banaraki), "attentional bias to emotional scene in attention deficit-hyperactivity disorder (ADHD) group an eyetracking study", ICSS (Institute for Cognitive Science Study), 2011.
10. Mehrnoosh Ahmadi (Medical student), Mehdi Tehrani-Doost, Javad Mahmood Gharaie, **Anahita Khorrami** (Banaraki), "Emotional bias assessment to emotional face in attention deficit-hyperactivity disorder (ADHD) group comparing to Normal group (6-11years old)", ICSS (Institute for Cognitive Science Study), Tehran University of Medical Science, 2011.
11. Mitra Judi (Child Psychiatry fellowship), Mehdi Tehrani-Doost, Javad Mahmood Gharaie, **Anahita Khorrami** (Banaraki), "Emotional bias assessment to emotional scene in attention deficit-hyperactivity disorder (ADHD) group after Ritalin comparing to Normal group (6-11years old)", ICSS (Institute for Cognitive Science Study), 2011.
12. Hashem Sadeghieh (Msc Psychology), Javad hatami, **Anahita Khorrami** (Banaraki), Hamed Ekhtiari, "Gender differences in empathy for pain: a single-pulse transcranial magnetic stimulation study", ICSS (Institute for Cognitive Science Study), University of Tehran, Faculty of Psychology, 2011.
13. Azar Mohammadzadeh (Msc Cognitive Psychology), Mehdi Tehrani-Doost, **Anahita Khorrami** (Banaraki), "Relationship between theory of mind and executive function in attention deficit-hyperactivity disorder(ADHD) children and compare with control group", ICSS (Institute for Cognitive Science Study), Tehran University of Medical Science, 2011.
14. Parvaneh Farhadbeigi, (Msc Cognitive Psychology), Fatemeh Bagherian, **Anahita Khorrami** (Banaraki), "The effect of stress on accuracy and speed of judgment", ICSS (Institute for Cognitive Science Study), Tehran University of Medical Science, 2011.
15. Zeinab Shirali-Nejad (Msc Cognitive Psychology), Fereshteh Baezzat, **Anahita Khorrami** (Banaraki), Behzad Ghorbani "The impact of teaching self monitoring on the executive function of hyperactivity and attention deficit children", ICSS (Institute for Cognitive Science Study), Tehran University of Medical Science, 2011.

16. Nasrin Orouji (Msc Cognitive Psychology), Javad Hatami, **Anahita Khorrami** (Banaraki), “Evaluation of self and other reference effect on processing of negative and positive traits“, ICSS (Institute for Cognitive Science Study), Tehran University of Medical Science, 2011.

## Publication

### Refereed Journal Papers:

1. Ghoreishi Z, Azimian M, **Khorrami banaraki A**, Alaghband rad J, Rafiee S. F, Slavati M, Tahmaseb Zade F, Sedigh Z, Pishavar S, Mohammadi Sabet V (2014). Lexical access in Persian normal speakers: Picture naming, Verbal fluency and Spontaneous speech. 12(20): 16-20. (*Persian*)
2. Mahmoudi Aghdam M, Dehghan M, Ahmadi M, Sharp E L, **Khorrami A**, Khatibi A (2014). Chronic pain and selective attention to pictures of pain arousing daily activities: evidence from an eye tracking study. European Journal of Pain (Under Review).
3. Ahmadi M, Tehrani-Doost M, **Khorrami A**, Pishyareh E, Bier J. S (2014). Emotional attentional bias in boys with attention deficit hyperactivity disorder: an eye tracking study. Psychiatry Research (Under Review).
4. **Khorrami A**, Tehrani-Doost M, Esteky H (2013). *How comparable are face and object processing in youth with autism spectrum disorder? An event related potentials study*. Iranian J of Psychiatry, 8(4):179-187. (From PhD Thesis)
5. Tehrani-Doost M, Noorazar N, Shahrivar Z, **Khorrami A**, Farhad Baygi P (2012). Facial emotions recognition in boys with attention/deficit/hyperactivity disorder (ADHD). Neuropsychiatrie de l'Enfance et de l'Adolescence. 60(5), S272-S3.
6. Pishyareh E, Tehrani-Doost M, Mahmoodi-Gharaie J, **Khorrami A**, Joudi M, Ahmadi (2012). Attentional Bias towards Emotional Scenes in Boys with Attention Deficit Hyperactivity Disorder. Iranian J of Psychiatry, 7, 93-96.
7. Sadeghiye H, Aghababaei N, Hatami J, **Khorami A** (2011), Comparing situational and dispositional empathy, considering the role of gender, 1(2), 13-16. (*Persian*)
8. Mohammadzadeh A, Tehrani-Doost M, **Khorrami A** (2012), Correlation between Theory of Mind (Intentionality) and Language in Normal Children. Advances in Cognitive Science, 14, 11-18.
9. Orooji N, Hatami J, **Khorrami A** (2012). Evaluation of Self- and Other-reference Effect on Processing of Positive and Negative Traits. Advances in Cognitive Science, 13, 27-36. (*Persian*)
10. Mosavi Mezerji SH, Sadeghi Marascht A, Sadeghi Abdollahi B, **Khorrami A** (2012), Study of difference of confidence in decision making in men and women. Advances in Cognitive Science, 14(3), 15-24. (*Persian*)
11. Ahmadi M, Judi M, **Khorrami A**, Mahmoudi-Gharaei J, Tehrani-Doost M (2011). Initial Orientation of Attention towards Emotional Faces in Children with Attention Deficit Hyperactivity Disorder. Iranian Journal of Psychiatry, 6, 87-91.
12. Ghassemi F, Moradi M H, Tehrani-Doost M, Abootalebi V, **Khorrami A**, Amin Mohammadian (2010). Relations between Levels of Sustained Attention and Event-Related-Potentials. Advances in Cognitive Science, 12, 73-81. (*Persian*)

## Conference:

1. Seifpour S, Mikaili M, Sadeghniat Haghighi K, Hekmatmanesh A, **Khorrami A**, Expose to emotional stimuli change the micro structural sleep electroencephalography, 22nd Congress of the European Sleep Research Society, 2014.
2. Hekmatmanesh A, Mikaili M, Sadeghniat Haghighi K, Seifpour S, **Khorrami A**, Spindles affection by use of negative emotional stimulations, 22nd Congress of the European Sleep Research Society, 2014.
3. **Khorrami A**, Tehrani- Doost M, Mohammadzadeh A, Sangi M, A comparison between face and its parts in youth with autism spectrum disorder with event related potential, INPP, Bolgharia, Jul 2014.
4. Mohammadzadeh A, **Khorrami A** (Correspond), A review of association between theory of mind and executive function in developmental disorder , INPP, Bolgharia, Jul 2014.
5. Ghoreishi Z, **Khorrami A** (Correspond), Farhadbeigi P, level theory of lexical access: evidence from a fluent aphasic patient , 5th international conference of cognitive science, Tehran, Iran, 2013.
6. Sadaf Pouriliali, **Khorrami A** (correspond), Deldar Z, Aliazizi N, Evaluation of iranian emblems (hand gestures) in native adults, 5th international conference of cognitive science, Tehran, Iran, 2013.
7. Safavi M, Raghidoost S, **Khorrami A**, Structural Processing of Persian Idioms and Semantic: A Study Based on ERPs, 5th international conference of cognitive science, Tehran, Iran, 2013.
8. Mohammadzadeh A, **Khorrami A**, Mehdi Tehranidoost, Review of theory of mind (intentionality) studies using the "moving shape paradigm" in Iran, 5th international conference of cognitive science Tehran, Iran, 2013.
9. **Khorrami A**, Tehrani-Doost M, Review of development and neurorehabilitation of face recognition and its disorders, 5<sup>th</sup> international child and adolescence psychiatry Tehran, Iran, 2011.
10. **Khorrami A**, Tehrani-Doost M, effect of object and face image on N170 in adolescence with Autism disorders comparing to normal group, 5<sup>th</sup> international child and adolescence psychiatry Tehran, Iran, 2011.
11. Mohammadzadeh A, Tehrani-Doost M, Khorrami A, Shahrivar Z, eyes test in Iranian children 9-11, 5<sup>th</sup> international child and adolescence psychiatry Tehran, Iran, 2011.
12. Mohammadzadeh A, Tehrani-Doost M, Khorrami A, Shahrivar Z, eyes test and theory of mind assessment of Iranian children in primary school, 5<sup>th</sup> international child and adolescence psychiatry Tehran, Iran, 2011.
13. Shirali-Nejad, **Khorrami A**, Ghorbani B, Baezat F, Effect of teaching of self monitoring strategy on executive function in hyperactive and inattentive children, 5<sup>th</sup> symposium of neuropsychology of Iran Tehran, Iran, 2011.
14. Sadeghiyeh H, **Khorrami A**, Hatami J, Gender differences in empathy for pain: A single-pulse transcranial magnetic stimulation study, Burgundy Meeting 2012, Beaune (France), January 25-28, 2012.
15. **Khorrami A**, Tehrani-Doost M, The role of research instrument of neuroscience in future of Autism spectrum diagnosis, 4<sup>th</sup> international child and adolescence psychiatry Meshad, Iran, 2011.
16. Pishyareh E, Tehrani-Doost M, Mahmoodi Gharaei J, **Khorrami A**, Judi M, Ahmadi M, attentional bias toward emotional scene in ADHD children comparing with normal group, 4<sup>th</sup> international child and adolescence psychiatry Meshad, Iran, 2011.
17. Mohammadzadeh A, Tehrani-Doost M, **Khorrami A**, Correlation between theory of mind (Intentionality) of ADHD children and their parents, 4<sup>th</sup> international child and adolescence psychiatry Meshad, Iran, 2011.
18. Mohammadzadeh A, Tehrani-Doost M, **Khorrami A**, comparing of parents of ADHD group with parents of normal group in terms of theory of mind (Intentionality) by motion objects paradigm, Mohammadzadeh



- A, Tehrani-Doost M, **Khorrami A**, 4<sup>th</sup> international child and adolescence psychiatry Meshad, Iran, 2011.
19. Judi M, Ahmadi M, **Khorrami A**, Mahmoodi Ghoraei, Tehrani-Doost M, Initial orientation to emotional face in ADHD children, 4<sup>th</sup> international child and adolescence psychiatry Meshad, Iran, 2011.
  20. Mohammadzadeh A, Tehrani-Doost M, **Khorrami A**, Correlation between theory of mind (Intentionality) and language in normal children, ESCAP 2011 congress, Finland, June 11-15, 2011.
  21. Tehrani-Doost M, Mohammadzadeh A, **Khorrami A**, Evaluation of theory of mind in children with attention deficit -hyperactivity disorder compared with control group, ESCAP 2011 congress, Finland, June 11-15, 2011.
  22. Bagherian F, Farhadbeigi P, **Khorrami A**, Accuracy of intuitive, quasi-rationality and analytic judgments, 2nd World Conference on Psychology, Counselling and Guidance, Turkey, May, 2011.
  23. Farhadbeigi P, Bagherian F, **Khorrami A**, The effect of stress on Accuracy and speed of judgement", 4<sup>th</sup> international conferences of cognitive science, Tehran, Iran, May, 2011.
  24. Mohammadzadeh A, Tehrani-Doost M, **Khorrami A**, Evaluation of theory of mind (intentionality) in primary school children using the Moving Shapes Paradigm, 4<sup>th</sup> international conferences of cognitive science, Tehran, Iran, May, 2011.
  25. **Khorrami A**, Seidsalehi SA, Tehrani-Doost M, Mohammadian A, Ghasemi F, Aboutalebi V, Design of Protocol and Data Recording and Statistical Analysis in Sustained Attention ,3<sup>th</sup> International Conference of Cognitive Science, Mrach, 2009.(Extracted from my MSc Thesis)
  26. **Khorrami A**, Seidsalehi SA, Tehrani-Doost M, Mohammadian A, Ghasemi F, Aboutalebi V, Study of Relations Between Morphological Features of Event Related Potentials and Level of Sustained Attention, ,3<sup>th</sup> International Conference of Cognitive Science, Tehran, Iran, March, 2009.(Extracted from my MSc Thesis)
  27. **Khorrami A**, Seidsalehi SA, Tehrani-Doost M, Mohammadian A, Ghasemi F, Aboutalebi V, " Analyziz of CPT Measures With ERP in Adulcence, 17<sup>th</sup> Electronic Engineering Conference of Iran, pp. 198, Iran, May, 2009.

## Books:

1. One of the editors of Evidence Based Medicine , Vista Publisher, 1<sup>th</sup> Edition, 2004
2. Editting of Persian translation of Converging Technologies for Improving Human Performance Edited by Roco, Mihail C, Springer Publish, Edition, 2003.
3. Persian Translation of Cognitive Science an Introduction to the Study of Mind Edited by Friendenberg, Jay, Sage publisher, Edition, 2006.
4. **Anahita Khorrami Banaraki**, Azar Mohammadzadeh, How do economical brain make decision "Neuromarketing and decision making", Science and technology think tank of contemporary world publisher,2013.
5. **Anahita Khorrami Banaraki**, Yasaman Bagherzadeh Bioky, What happen in unconscious of costumer "neuromarketing and unconscious", Science and technology think tank of contemporary world publisher, 2013.
6. **Anahita Khorrami Banaraki** , Shaghayegh Konjedi, loss aversion in business "what brain know of neuromarketing", Science and technology think tank of contemporary world publisher, 2013.
7. **Anahita Khorrami Banaraki** , Shaghayegh Konjedi, Negar Karimi, Introduction to neuromarketing, Science and technology think tank of contemporary world publisher, 2013.

## **Journal Reviewer:**

1. Iranian journal of Psychiatry, Tehran University
2. Journal of Cognitive Science, ICSS
3. Basic and Clinical Neuroscience, Iran Medical University