

## EDUCATION AND WORK

**2012-2021:** MD, Tehran University of Medical Sciences, Tehran, Iran

**June 2017-Present:** Iranian National Centre for Addiction Studies (INCAS) Neurocognitive Lab Group Member. My work in the Neurocognitive Lab under the supervision of Dr. Hamed Ekhtiari has mainly focused on investigating the neural underpinnings and behavioral aspects of drug cue reactivity in individuals with substance use disorders, using fMRI and behavioral tasks. I have also helped coordinate systematic review and consensus development efforts in fMRI drug cue reactivity research.

I have also been involved with national and regional INCAS projects in the Epidemiology and Public Health and Behavioral Addictions departments of INCAS under the supervision of Professor Afarin Rahimi-Movaghar, the centre's director. These projects have been mainly focused on addiction epidemiology, policy-making and treatment protocols.

## PEER-REVIEWED PUBLICATIONS

Soleymani, M. B., **Sangchooli, A.**, Ebrahimpour, M., ... Ekhtiari, H. (2021). *Temporal Dynamics of the Neural Response to Drug Cues: An fMRI Study among Methamphetamine Users*. **Basic and Clinical Neuroscience**. <https://doi.org/10.32598/bcn.2021.3126.1>

Amini, S., Kouchak, H. E., **Sangchooli, A.** (2020). *Inoperable Primary Hydatidosis of Pelvic Bones with Involvement of Gluteal Muscles: Diagnosis of a Rare Presentation and Follow-up*. **SN Comprehensive Clinical Medicine**, 2(3), 342–345. <https://doi.org/10.1007/s42399-020-00219-x>

Shadloo, B., Farnam, R., Amin-Esmaili, M., ... **Sangchooli, A.** ... Rahimi-Movaghar, A. (2018). *Ambiguities in existing Iranian national policies addressing excessive gaming: Commentary on: Policy responses to problematic video game use: A systematic review of current measures and future possibilities (Király et al., 2018)*. **Journal of Behavioral Addictions**, 7(3), 540–542. <https://doi.org/10.1556/2006.7.2018.63>

## PREPRINTS

Ekhtiari, H., Zare-Bidoky, M., **Sangchooli, A.**, ... Zilverstand, A. (2020). A Methodological Checklist for fMRI Drug Cue Reactivity Studies: Development and Expert Consensus. *MedRxiv*, 2020.10.17.20214304. <https://doi.org/10.1101/2020.10.17.20214304>

Ekhtiari, H., Ghobadi-Azbari, P., Thielscher, A., ... **Sangchooli A.**, ... Bikson, M. (2020). *A Checklist for Assessing the Methodological Quality of Concurrent tES-fMRI Studies (ContES Checklist): A Consensus Study and Statement*. **MedRxiv**, 2020.12.23.20248579. <https://doi.org/10.1101/2020.12.23.20248579>

## UNPUBLISHED MANUSCRIPTS

Jafakesh, S., **Sangchooli, A.**, Aarabi, A., ... Ekhtiari, H. (2021). *Temporally Dynamic Interaction between Drug Cue Reactivity and Response Inhibition: An fMRI Study among People with Methamphetamine Use Disorder*. Manuscript submitted for publication.

Rafiemanesh, H., Farnam, R., Rahimi, J., Hamzehzadeh, M., **Sangchooli, A.**, ... Rahimi-Movaghar, A. (2021). *Online Gaming and Internet Gaming Disorder in Iran: Patterns, Motivations, and Correlates*. Manuscript submitted for publication.

**Sangchooli, A.**, Hamzehzadeh, M., Rafiemanesh, H., ... Rahimi-Movaghar, A. (2021). *Development and Psychometric Evaluation of a DSM-based Social Networking Site Use Disorder Test (SNS-DT-10)*. Manuscript submitted for publication.

Hamzehzadeh, M., **Sangchooli, A.**, Rafiemanesh, H., ... Rahimi-Movaghar, A. (2021). *Psychometric Properties of the Ten-Item Internet Gaming Disorder Test (IGDT-10) and its Best Screening Items in the Iranian Population*. Manuscript submitted for publication.

**Sangchooli, A., Zare-Bidoky, M., Zilverstand, A., ... Ekhtiari, H.** *Systematic Review and Narrative Synthesis of Twenty Years of Functional Magnetic Resonance Imaging with Cue-Reactivity Tasks in Addiction Medicine: Current Status and Directions in Biomarker Development.* Manuscript in preparation.

**Sangchooli, A., Hamzehzadeh, M., Farnam, R., ... Rahimi-Movaghar, A.** *Patterns of Video Game Playing and Its Correlates Before and During the COVID-19 Lockdown and Six Months After Reopening in a Random Sample of Adolescents and Young Adults in Tehran.* Manuscript in preparation.

Afshar, A., **Sangchooli, A.,** Noroozi, A., ... Rahimi-Movaghar, A. *A Pilot Drug Treatment Court Program in Iran: Development of Eligibility Criteria.* Manuscript in preparation.

## CONFERENCES

**May 2016:** 9<sup>th</sup> International Congress for Psychotherapy/ Asian Chapter of WCP

**Nov. 2016:** 1<sup>st</sup> International Congress of Universal Scientific Education & Research Network (USERN)

**Dec. 2018:** 7<sup>th</sup> Basic and Clinical Neuroscience Congress

**Sept. 2018:** 10<sup>th</sup> Royan International Congress on Stem Cell Biology and Technology

**May 2019:** 3<sup>rd</sup> Iranian Symposium on Brain Mapping Updates

**Sept. 2019:** The Institute for Research in Fundamental Sciences (IPM) Summer School, "Philosophy of Language, Ethics and Metaphysics"

**April-May 2020:** Psychiatric Genomics Consortium Meeting: Pathways to Therapeutics

## PRESENTATIONS AND AWARDS

**Oct. 2013:** 25<sup>th</sup> International Congress of Pediatrics & 5<sup>th</sup> Young Researchers Session, Oral presentation: Cohort of 173 Iranian Common Variable Immunodeficiency Patients

**Sept. 2018:** 10<sup>th</sup> Royan International Congress on Stem Cell Biology and Technology, awarded as the best audience member

**Sept. 2018:** 12<sup>th</sup> Annual International Addiction Science Congress 2018 (ASC 2018) (award won) talk title: Temporal Dynamics of the Neural Response to Drug Cues Among Amphetamine Users. Awarded EZAMA Diploma of Honor for recognition of distinguished research in the field of addiction medicine.

**Nov. 2018:** 20<sup>th</sup> International Society of Addiction Medicine Annual Meeting, From the Past to the Future. Oral presentation entitled "Temporal Dynamics of the Neural Response to Drug Cues Among Methamphetamine Users"

**May 2019:** 3<sup>rd</sup> MRI National Competition: "Novel ideas on diagnosis and treatment of learning disability". Awarded 3<sup>rd</sup> place for the submitted proposal entitled "Resting State fMRI Connectivity Patterns in Children with Dyslexia: Neurobiology and Predicting Treatment Outcomes"

**Dec. 2019:** 8<sup>th</sup> Basic and Clinical Neuroscience Congress 2019. Gave oral presentation, entitled "Cue Induced Craving in Addiction Medicine: Neurocognitive Bases and Implications for Clinical Practice."

**Nov. 2020:** 3<sup>rd</sup> International Society of Addiction Medicine Neuroscience Interest Group (ISAM-NIG) Webinar in Collaboration with ENIGMA Addiction Working Group. Oral Presentation entitled A Methodological Systematic Review on Drug Cue Reactivity

**Dec. 2020:** 9<sup>th</sup> Basic and Clinical Neuroscience Congress 2020. Presentation in the panel "Potentials for Virtual Collaborative Networks (ViCoNs) in Promoting Global Neuroscience" entitled "Introduction to ENIGMA-Addiction Cue Reactivity Initiative (ACRI)"

**Dec. 2020:** 1<sup>st</sup> International Society of Addiction Medicine Asian Regional Meeting on Addiction Medicine/14<sup>th</sup> International Addiction Sciences Congress (ASC 2020). Oral Presentation entitled "Patterns of Video Game Playing and Its Correlates Before and During the COVID-19 Lockdown and Six Months After Reopening in a Random Sample of

Adolescents and Young Adults in Tehran". Two Panel Presentations entitled "Healthy Use of Cyberspace and Prevention of Its Harms- Physical Health, Risks and Prevention" and "Addressing Challenges in fMRI Drug Cue Reactivity: Checklist for fMRI Drug Cue Reactivity Studies, Results and Expert Consensus".

**Dec. 2020:** Co-Chaired the panel on "fMRI Drug Cue Reactivity Research in Addiction Medicine: Current Challenges and Future Directions" at the 1<sup>st</sup> International Society of Addiction Medicine Asian Regional Meeting on Addiction Medicine/14<sup>th</sup> International Addiction Sciences Congress (ASC 2020).

## WORKSHOPS AND ADDITIONAL COURSES

**Aug.-Sept. 2014:** Workshop on Good Clinical Practices (3 days) led by Neometrix Consulting Inc and Cell Tech Pharmed Company.

**Dec. 2017:** Workshop on Neurocognitive Interventions for Obesity and Overeating Management (2 days) led by the Iranian National Center for Addiction Studies (INCAS)

**Sept. 2018:** fMRI Physics and Data Acquisition Principles: from Theory to Practice (2 days) led by the National Brain Mapping Laboratory.

**Sept. 2018:** Brain Signal Processing and its Application in Computational Neuroscience (3 days) led by the National Brain Mapping Laboratory.

**Jan. 2019:** Workshop on Functional MRI Advanced Data Analysis (3 days) led by the NeuroImaging and Analysis Group, Imam Khomeini Hospital.

**Oct. 2019:** Qualitative Research Methods course (18 hours) led by the Iranian Sociological Association.

**Jan. 2020:** Ethical Decision-Making in Care (8 hours) led by the University of Surrey.

**Sept. 2020:** Computational Psychiatry Course 2020, led by the Translational Neuromodelling Unit, ETHz and University of Zurich.

## SKILLS AND SOFTWARE COMPETENCIES

I have engaged in various steps of the research process across a number of projects in addiction neuroscience and epidemiology, from study conceptualization to the writing and submission of research protocols and grant requests, budgeting and planning, obtaining independent ethics approval, preregistration, field work, data collection, pre-processing, exploration and analysis, developing original research and review papers, oral presentation of results, journal selection, manuscript submission and revision. I have also had the chance to peer review a manuscript.

**R:** Data wrangling, analysis and visualization, using R Markdown for reproducible coding. I performed all the data analysis for my thesis and some of the work in other projects in R.

**SPSS:** I used to utilize SPSS extensively for data analysis before switching to R.

**FSL and SPM:** Basic fMRI preprocessing and data analysis skills, generally comfortable with the GUI.

**MAXQDA:** Essential qualitative analysis skills, hierarchical coding and visualization. I used MAXQDA for qualitative data analysis in a mixed-methods project to investigate changes in gaming behavior and symptoms of internet gaming disorder during the COVID19 pandemic.

**Survey Solutions:** I used the platform to code complex and reproducible online and offline questionnaires and monitor interviewers remotely during the project to investigate gaming pattern changes during the COVID19 pandemic.

I use literature mapping software such as Dimensions, Inciteful, Litmaps and CoCites often for literature review.

I am comfortable with widely used Microsoft Office programs and Google Docs Editors suite software.