S. Sanaz Hosseini

Contact Information

Computational Cognitive Neuroscience Lab
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Education

2017-Present

Florida International University, Miami, Florida, USA.

- Ph.D. Candidate, Cognitive Neuroscience
- Master Thesis: Are Facial Identity and Expression Perceived Independently? A Study Controlling Stimulus and Decisional Confounds.
- Supervisor: Dr. Fabian Soto
- GPA: 4/4

2014-2016

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Tehran, Iran.

- M.Sc., Biomedical Engineering
- Thesis: Modeling and Analysis of Interactions between Genes in a Gene Network
- Supervisor: Dr. Sajad Jafari
- GPA: 17.82/20

2010-2014

Sahand University of Technology, Tabriz, East Azerbaijan, Iran.

- B.Sc., Bioelectrical Engineering
- Thesis: Design and Manufacture a Glucometer
- GPA: 18.52/20

2006-2010

National Organization of Exceptionally Talented students (NODET), Karaj, Alborz, Iran.

- High school and pre-university Diploma, Mathematics & Physics
- GPA: 18.87/20

Journal Publications

Published:

- Nazarimehr, F., Hosseini, S. S., Khalaf, A. J. M., Jafari, S., & Sprott, J. C. (2020). Process equation as a model for the development of cells. *The European Physical Journal Special Topics*, *229*, 921-927.

- Hosseini, S. S., & Soto, F. (2018). Comparing the perceptual separability of familiar and unfamiliar face dimensions. *Journal of Vision*, *18*(10), 1094-1094.

- Hosseini, S. S., Nazarimehr, F., & Jafari, S. (2017). Investigation of seasonal and latitudinal effects on the expression of clock genes in drosophila. *International Journal of Bifurcation and Chaos*, *27*(10), 1750153.

Accepted:

- Soto, F., Stewart, R. A., Hosseini, S. S., Hays, J., & Beevers, C. G. (2021). A Computational Account of the Mechanisms Underlying Face Perception Biases in Depression. *Journal of Abnormal Psychology.*

Submitted:

- A new 3D chaotic system with only quadratic nonlinearities: Analysis and circuit implantation

In preparation:

- Independent processing of face identity and expression: A critical review of the psychophysical literature and steps toward a better framework

- Complex dynamics of a simple gene regulatory motif

Conferences and Talks

- Hosseini, S. S., & Soto, F. A. (2020, July). Studying independence of facial identity and expression processing with highly controlled stimuli and decisional factors. Poster presented at Psychonomic Society 202 Annual Meeting.

- Hosseini, S. S., & Soto, F. A. (2020, July). Are facial identity and expression perceived independently? A study controlling stimulus and decisional confounds. Poster presented at Virtual MathPsych/ICCM 2020.

- Hosseini, S. S., & Soto, F. A. (2018, May). Comparing the perceptual separability of familiar and unfamiliar face dimensions. Poster presented at the 18th Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.

Awards & Honors

- 2020 J. Frank Yates Student Conference Award Recipients ($1000)

Work Experiences

Teaching Assistant, Florida International University

- Research Methods and Data Analysis in Psychology I (Fall 2018 & Spring 2019)
- Research Methods and Data Analysis in Psychology II (Summer 2019, Spring, Summer & Fall 2020, Spring 2021)
- Special Topics in Psychology: Quantitative Methods I (Fall 2020)

Internship, Sahand University of Technology

- The Design and Manufacture Center for Medical Equipment (Summer 2013).

Software and Languages Worked with:

- R, Python
- MakeHuman, PsychoPy
- Proteus, PSpice, FlowCode
- Matlab, Assembly

Languages

- Persian (Farsi)-native
- English
- Kurdish

Research Interests

- Neuroscience, Face Perception, Neural Encoding and Decoding, Chaotic Systems, Computational Modeling, Complex Biological Systems, Non-linear Dynamics

References

Dr. Fabian Soto

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Miami, Florida, USA.
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Dr. Sajad Jafari

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Email: sajadjafari@aut.ac.ir