

# Amirsalar Mansouri

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## Education

- 2014–Present** Ph.D. in Electrical and Computer Engineering,  
Department of Electrical & Computer Engineering, University of Nebraska- Lincoln,  
Lincoln, NE, USA  
**Current GPA: 3.542**
- 2009–2013** B.Sc. in Electronic Engineering,  
School of Electrical & Electronic Engineering, Iran University of Science &  
Technology, Behshahr, Iran  
**Total GPA: 14.38/20**
- 2005–2009** Diploma in Physics and Mathematics Discipline  
Allameh Helli High School, National Organization for Development of Exceptional  
Talents, Tehran, Iran,  
**Total GPA: 18.31/20**

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## Research Interests

- EEG
- Signal Processing
- Machine Learning
- Data mining
- Bioinformatics
- RNA-seq

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## Awards and Honors

- 2019** UNL Research Fair graduate session ECE department 2<sup>nd</sup> place (April 2019)
- 2002-2009** Member of the National Organization for Development of Exceptional Talents
- 2006** Ranked 3<sup>rd</sup> in NODET's High Schools RoboCup Competition, HelliCup, Tehran, Iran.
- 2006** Ranked 2<sup>nd</sup> in Noshirvani University of Technology National RoboCup Competition, Babol, Iran.
- 2007** Ranked 2<sup>nd</sup> in NODET's High Schools RoboCup Competition, HelliCup, Tehran, Iran.
- 2007** Ranked 2<sup>nd</sup> in Junior Soccer league Iran Open International RoboCup Competition, Tehran, Iran.

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## Top Ranked Scores

ECEN 996 Computational Intelligence (A)  
ELEC 844 LINEAR CONTROL SYS (A)  
CSCE 872 DIGITAL IMAGE PROCES (A)  
ELEC 911 COMMUNICATION THEORY (A)  
CSCE 878 INTRO MACHINE LRNG (A)  
ELEC 996 Bayesian Networks (A+)  
ELEC 863 DIGITAL SIGNAL PROC (B+)  
ELEC 852 BIOINFORMATICS (B+)  
CSCE 874 INTRO DATA MINING (A-)  
ECEN 853 Computational and Systems Biology (A+)  
ECEN 853 Biological Image & Signal Processing (A)  
SLPA 981 Neuroimaging & Language Disorders (A)  
STAT 841 Statistical Methods for High Throughput Biological Data (A)

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## Research Experience

**Fall 2014 – Present**      **Research Assistant, Advisor Dr. Khalid Sayood.**

Department of Electronic Engineering, University of Nebraska- Lincoln,  
Topics: EEG analysis especially pattern recognition of states of brain transitions, RNA-Seq analysis

**Spring 2013 – Spring 2014**      **Research Assistant in Electronic Laboratory directed by Dr. Ali Kermani.**

Department of Electronic Engineering, Iran University of Science & Technology,  
Measuring of Mind's Awareness, based on sampling and processing and pattern recognizing of an EEG signal via amplification and filtering circuit and software filtering and analysis system.

**Spring 2011 – Spring 2012**      Simulation of a complete minimum system (including RAM, ROM, LCD, etc.) in Proteus. Project of "Computer Structure and Microprocessors", Dr. Kermani, Fall 2012.

Group project of Simulating, Designing and Implementation of ECG Signals Analyzer, Dr. Ghonoudi, Behshahr, Iran, Spring 2012

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## Teaching Experience

**Fall 2014 - Present**      Teaching Assistant of Department of Electrical and Computer Engineering Department

**Summer 2015**      Upward Bound Math Science  
Teaching Robotics, Introduction to electronics and the microcontroller and robotics.

**Fall 2012**      Head Teaching Assistant of Electronics. Duties included shared administrative responsibilities with faculty instructor, fielding of all student inquiries, and oversight of graduate student teaching assistants and grader.

**Fall 2012**      Teaching assistant of Electronic II. Instructor: Dr. Esmaeili

**Fall 2009  
Spring 2010**      Teaching assistant of Computer Programming. Instructor: Dr. Mohammadzadeh

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## Publications

### **Hierarchal Online Temporal and Spatial EEG Seizure Detection**

Mansouri, Amirsalar, Sanjay Singh, and Khalid Sayood. "Hierarchal Online Temporal and Spatial EEG Seizure Detection." 2017 IEEE International Conference on Electro Information Technology (EIT) (May 2017). [doi:10.1109/eit.2017.8053397](https://doi.org/10.1109/eit.2017.8053397).

### **Online EEG Seizure Detection and Localization**

Mansouri, Amirsalar, Sanjay P. Singh, and Khalid Sayood. "Online EEG Seizure Detection and Localization." *Algorithms* 12.9 (2019): 176. [doi.org/10.3390/a12090176](https://doi.org/10.3390/a12090176)

### **Bone Marrow Derived SH-SY5Y Neuroblastoma Cells Infected by Kaposi's Sarcoma Herpes Virus (KSHV) Display Unique Infection Phenotypes and Growth Properties (*in press*)**

Kong, Xiaohong and Li, Dongmei and Mansouri, Amirsalar and Kang, Guobin and Sayood, Khalid and West, John and Wood, Charles. 2021. "Bone Marrow Derived SH-SY5Y Neuroblastoma Cells Infected by Kaposi's Sarcoma Herpes Virus (KSHV) Display Unique Infection Phenotypes and Growth Properties." *Journal of Virology* (American Society for Microbiology Journals). [doi:10.1128/JVI.00003-21](https://doi.org/10.1128/JVI.00003-21)

### **Automated Concussion Detection (*Manuscript in preparation*)**

Mansouri, Amirsalar and Ledwidge, Patrick and Sayood, Khalid and Molfese, Dennis (2021).

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## Conferences/Workshop Attended

2017 IEEE International Conference on Electro Information Technology (EIT) (May 2017)  
2017 American Epilepsy Society Annual Meeting (AES) (December 2017)  
Workshop on NGS Data Analysis, MASTERING RNA-SEQ (April 2018)  
2018 Midwest Big Data Summer School (July 2018)  
2019 UNL Research Fair graduate session (April 2019)

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## Computer Skills

**Programming Languages:** MATLAB (Expert especially in Signal Processing, Coding, and Simulink), Python, C++, Assembly, Pascal, Basic, Familiar with R, C#, HTML, PHP  
**Circuit Simulation and Analysis:** PSpice, Proteus (ISIS), Modelism, CodeVision AVR  
**CAD Softwares:** AutoCAD, Corel Draw  
**Operating System:** Microsoft Windows, Mac OS, and Familiar with Linux (Ubuntu)  
**Typesetting:** Microsoft Office, LaTeX

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## Language Skills

English	Fluent
Farsi	Native

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## Voluntary Activities

Judging the UNL Research fair posters	Undergraduate session April 2019 Lincoln NE
The Valley Flood relief	Valley Nebraska April 2019
Walk to End Epilepsy	Lincoln NE May 2019

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## Extracurricular Activities

Biking, Learning & Playing Violin, Poems, Volleyball, Basketball, Camping, Thinking...

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