

Hamed Abdi



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EDUCATION

PhD | Shahid Beheshti University (SBU)

COMPUTATIONAL COGNITIVE SCIENCE

2015 – Present

Thesis: Structural Model of Cognitive Mechanisms involved in Prediction of Cooperative Behavior in Social Situations; Based on Theory of Mind and Game Theory

MSc | University of Isfahan (UI)

HISTORY AND PHILOSOPHY OF SCIENCE

2011 – 2013

Thesis: The Problem of Induction; A Bayesian Approach to Inductive Reasoning

Seminar I: Relativity and Geometry; Philosophical Aspects of Modern Cosmology

Seminar II: The Possibility of Cooperation; The Cognitive and Philosophical Aspects of Cooperation Behavior

BSc | University of Zanjan (ZNU)

TELECOMMUNICATION ENGINEERING

2005 – 2009

Thesis: Analysis of Radio Telescope Antenna (Big Ear) using S-NEC



RESEARCH INTEREST

- Philosophy (Epistemology, Science, and Ethics)
- NeuroPhilosophy, NeuroEthics, and NeuroAesthetics
- Social Cognition, Emotions, and Intelligence
- Social Dilemma, Trilemma, and Polylemma
- NeuroEconomics & Game Theory
- Complex Systems & Complexity Science
- Data Mining & Pattern Recognition
- Human-Computer Interaction & User Experience Design

RESEARCH EXPERIENCE

Research Assistant | Institute for Cognitive and Brain Sciences **LABORATORY OF BRAIN–COMPUTER INTERFACE (BCI)**

2016 – 2018

Supervisor: Dr. Reza Khosrowabadi

- *An EEG-Based Brain-Computer Interface for Emotion Recognition*

Research Assistant | Institute for Cognitive and Brain Sciences **LABORATORY OF BRAIN SIGNALS AND IMAGES ANALYSIS**

2015 – 2018

Supervisor: Dr. Reza Khosrowabadi

- *Screening of Autism Based on Task-Free fMRI Using Graph Theoretical Approach*

Research Assistant | Shahid Beheshti Univeristy **COMPREHENSIVE SCIENTIFIC PROGRAM**

2016 – 2017

Supervisor: Prof. Hamidreza Pouretmad

- *Tree of Knowledge of Cognitive Science*

Research Assistant | University of Isfahan **HISTORY AND PHILOSOPHY OF SCIENCE DEPARTMENT** **2011 – 2013**

Supervisor: Dr. Amirehsan Karbasizadeh

- *Epistemology and Philosophy of Cognitive Science*

Research Assistant | University of Isfahan **HISTORY AND PHILOSOPHY OF SCIENCE DEPARTMENT** **2011 – 2013**

Supervisor: Prof. Rasoul Roknizadeh

- *Philosophy of Quantum Information*

Research Assistant | Xrobox Co. **XROBOX ROBOTIC GROUP** **2009 – 2011**

Supervisor: Dr. Ali Anvari

- *Digital Image Processing*

Research Assistant | Zanjan University **ANTENNA RESEARCH GROUP** **2008 – 2009**

Supervisor: Prof. Habibollah Zolfkhani

- *Radio Cosmology and Radio Astronomy Data Analysis*



TEACHING EXPERIENCE

Teaching Assistant | Institute for Cognitive and Brain Sciences

Title: Dynamical Systems in Neuroscience

2015 – 2016

Reference: Dynamical Systems in Neuroscience - Izhikevich

Teaching Assistant | University of Isfahan

Title: Philosophy of Quantum Mechanics

2012 – 2013

Reference: Philosophy of Quantum Mechanics - Albert

Teaching Assistant | University of Isfahan

Title: Philosophy of Quantum Information

2012 – 2013

Reference: Philosophy of Quantum Information and Entanglement - Bokulich

Teaching Assistant | University of Isfahan

Title: Cognitive Psychology

2012 – 2013

Reference: Cognitive Psychology, Sixth Edition – Sternberg



WORKSHOP & PRESENTATION

Workshops:

- Human Factors (Every User has a Mind) - Rahnema College 2018
- Cognitive Science Perspective on User eXperience (UX) - Rahnema College 2017
- Time Perception: from Philosophy to Brain - 6th Basic & Clinical Neuroscience Congress (BCNC2017)
- Matlab for Neuroscientists - ICBS 2017
- The game theoretical Matlab toolbox MatTuGames - ICBS 2017
- A direct Brain-to-Brain Interface in humans - ICBS 2017

Presentations:

- Reduced Sensitivity to Social Priors during Action Prediction - IPM 2017
- The Construction of Visual Reality (Predictive Coding Framework) - ICBS 2017
- Markov Decision Process - ICBS 2016
- Predictive Processing & Predictive Coding Framework - ICBS 2016
- NeuroAesthetics - ICBS 2016
- Mental Representation - Isfahan University 2013



WORK EXPERIENCE

BUSINESS DEVELOPMENT MANAGER | ATVISION

(Part Time) OCT 2016 – PRESENT

Key Responsibilities:

- 1) Identifying new prospects in Marketing and Advertising industry.
- 2) Negotiating with effective people in the field of M&A in order to achieve common goals.
- 3) Following up new business opportunities in M&A industry and setting up meetings.
- 4) Designing and developing short, medium and long-term strategies to improve situation of our agency in M&A industry.
- 5) Tracking and analyzing trends of M&A industry and preparing reports to CEO.
- 6) Preparing draft of contracts with partner companies.
- 7) Designing and developing M&A strategies based on objectives and Marketing perspectives of costumers.

CHIEF TECHNOLOGY OFFICER | SADAF CO.

(Part Time) JUL 2015 – JAN 2018

Key Responsibilities:

- 1) Proposing media plan and marketing strategy for Digital Marketing campaigns based on campaign goals and KPIs.
- 2) Managing Digital Marketing campaigns and preparing standard reports for customers.
- 3) Collaborating with Digital Marketing Agencies and strategic partners to optimize Digital Marketing Campaigns.

RESEARCH AND DEVELOPMENT MANAGER | XROBOX ROBOMAKERS

(Full Time) MAR 2014 – JUL 2015

Key Responsibilities:

- 1) Leading and managing several technical projects (Robotics, Modular Educational Tools).
- 2) Managing and planning for robotics competitions.
- 3) Developing robotics courses based on efficient educational methods.

KNOWLEDGE MANAGEMENT EXPERT | OMID TECHNOLOGIES

(Full Time) OCT 2013 – MAR 2014

Key Responsibilities:

- 1) Providing user guide, white paper and instructions for technical processes and procedures.
- 2) Creating suitable content for customers and customer service.
- 3) Cataloging and archiving documented knowledge for easy access.



SKILLS

Programming Skills:

- Scientific Programming:
 - Matlab
 - Python
 - R
 - NetLogo (Agent-Based Programming Language)
- Microcontroller Programming:
 - AVR
 - ARM
 - FPGA
- Front End Programming:
 - D3.js
 - CSS
 - HTML

Language Skills:

- **Persian:** Native
- **English:** Upper Intermediate
- **Arabic, Turkish:** Fair

Other Skills:

- Concepts of Marketing, Branding, Communication and Advertising
- NeuroMarketing tools and methods (Eye Tracker, EEG, Behavioral Analysis)
- Computational Modeling (Game Theory, Bayesian Statistics, SEM)
- Project Management based on Scrum Framework
- Qual/Quant Marketing Research and Analysis
- Statistics and Data Analysis
- UX and Service Design



HOBBIES

- Photography
- Painting
- Cinema & Theatre
- Sudoku & Chess
- Hiking & Biking