

# 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 Cooperative Behavior

**BSc** | Zanjan University (ZNU)

Telecommunication Engineering

2005 – 2009

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



## RESEARCH INTEREST

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

## RESEARCH EXPERIENCE

**Research Assistant** | Institute for Cognitive and Brain Sciences  
Cognitive Game Theory Group

2017 – 2018

**Supervisor:** Prof. Madjid Eshaghi Gordji

**Research Assistant** | Institute for Cognitive and Brain Sciences  
Laboratory of Brain–Computer Interface (BCI)

2016 – 2017

**Supervisor:** Prof. Reza Ghaderi

- *An EEG-Based Motor Imagery Brain Computer Interface*

**Research Assistant** | Institute for Cognitive and Brain Sciences  
Laboratory of Brain Signals and Images Analysis

2016 – 2017

**Supervisor:** Prof. Gholamreza Jafari

- *Screening of Autism Based on Task-Free fMRI Using Wavelet Transform Method*

**Research Assistant** | Shahid Beheshti University  
Comprehensive Scientific Program

2016 – 2017

**Supervisor:** Prof. Hamidreza Pouretamad

- *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 and Video Processing*

**Research Assistant** | Zanzan University  
Antenna Research Group

2008 – 2009

**Supervisor:** Prof. Habibollah Zolfkhani

- *Radio Cosmology and Radio Astronomy Data Analysis*



## PUBLICATION

### Journal Paper:

- Eshaghi Gordji, M.; Askari, G.; Abdi, H. Why Is a Boycott of the Elections a Bad Idea?. *Preprints* 2018, 2018080247 (doi: 10.20944/preprints201808.0247.v1).

### Books:

- Translation of "*Social Dilemmas; The Psychology of Human Cooperation*" to Persian
- Translation Parts of "*Philosophy and The Neurosciences: A Reader*" to Persian

### Conference Paper:

- H. Abdi, G. Jafari, "Fractal Analysis of Medieval Paintings and Evolution of Visual Perception", 7<sup>th</sup> International Conference of Cognitive Science (ICCS 2017)
- H. Abdi, S. Sabaghypour, A. Ghaderi, "*Time Perception: Time in Philosophy, Physics and Psychology*", 6th Basic & Clinical Neuroscience Congress (BCNC2017)
- H.abdi, N. Gorgin, M.Eslami "*Realism and the Challenge of Moral Dilemmas*", 3<sup>rd</sup> Student Philosophy Conference (JPHIL2015)



## TEACHING EXPERIENCE

### Teaching Assistant | Institute for Cognitive and Brain Sciences

Title: Dynamical Systems in Neuroscience

2015 – 2016

**Reference:** Dynamical Systems in Neuroscience - Izhikevich

**Supervisor:** Prof. Gholamreza Jafari & Dr. Fatemeh Bakouei

### Teaching Assistant | University of Isfahan

Title: Philosophy of Quantum Mechanics

2012 – 2013

**Reference:** Philosophy of Quantum Mechanics - Albert

**Supervisor:** Prof. Rasoul Roknizadeh

### Teaching Assistant | University of Isfahan

Title: Philosophy of Quantum Information

2012 – 2013

**Reference:** Philosophy of Quantum Information and Entanglement - Bokulich

**Supervisor:** Prof. Rasoul Roknizadeh

### Teaching Assistant | University of Isfahan

Title: Social Epistemology

2012 – 2013

**Reference:** Social Epistemology - Adrian Haddock, Alan Millar, and Duncan Pritchard

**Supervisor:** Dr. Amirehsan Karbasizadeh

### Teaching Assistant | University of Isfahan

Title: Cognitive Psychology

2012 – 2013

**Reference:** Philosophy and the Neurosciences: A Reader - William Bechtel

**Supervisor:** Dr. Ali Zarei

## WORKSHOP & PRESENTATION

### **Workshop:**

- Human Factors (Every User has a Mind) - Rahnema College 2017 & 2018
- Structural Equation Modeling in R - ICBS 2018
- Python for Cognitive Scientists - ICBS 2017
- Matlab for Cognitive Scientists - ICBS 2017
- The Game Theoretical Matlab Toolbox MatTuGames - ICBS 2017
- A Direct Brain-to-Brain Interface in Humans - ICBS 2017

### **Presentation:**

- Applications of Game Theory in Cognitive Science - ICBS 2018
- 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
- Experimental Philosophy, Solutions and Challenges – Isfahan University 2013
- Mental Representation - Isfahan University 2013
- From Neuroscience to Philosophy and Vice Versa - Isfahan University 2013
- Introduction to Computational Theory of Mind (CTM) - Isfahan University 2013

## SKILLS

### **Programming Skills:**

- **Scientific Programming:**
  - Matlab (SPM, EEGLAB, BCILAB, FracLab, Psychtoolbox, MatTuGames)
  - Python (PsychoPy, Pandas, Gambit, SageMath)
  - R (GameTheory, SPM12r, SEMTools)
  - NetLogo (Agent-Based Programming Language)
  - Microcontroller Programming (AVR, ARM, FPGA)

### **Other Skills:**

- NeuroMarketing tools and methods (Eye Tracker, EEG, Behavioral Analysis)
- Computational Modeling (Game Theory, Bayesian Statistics, SEM)
- Concepts of Marketing, Branding, Communication and Advertising (MBCA)
- Qual/Quant Marketing Research and Analysis
- Statistics and Data Analysis
- UX and Service Design
- Situation Analysis (SWOT, PEST, 5 Cs) to Creating Marketing Strategy
- Project Management based on Scrum Framework
- Front End Programming (D3.js, CSS, HTML)

### **Language Skills:**

- **Persian:** Native
- **English:** Good
- **Arabic, Turkish:** Fair



## MEMBERSHIPS & CERTIFICATES

- Member of Iranian Society for Cognitive Science and Technology
- Member of Iranian Association for Popularization of Science (IAPS)
- Member of Scientific Society of Philosophy (University of Isfahan)
- Member of Iranian Association of Social Psychology
- 3 day workshop on fMRI data analysis (IPM 2018)
- 2 day workshop on Principles of Neural Coding (IPM 2017)
- 6<sup>th</sup> Summer School in Analytic Philosophy: Internalism and Externalism: Content, Cognition and Norm (IPM 2016)
- 5<sup>th</sup> Summer School in Analytic Philosophy: Topics in Philosophy of Mind (IPM 2015)



## WORK EXPERIENCE

### Business Development Manager | Atvision

(Part Time) OCT 2016 – Present

### Chief Technology Officer | Sadaf Co.

(Part Time) JUL 2015 – JAN 2018

### Research and Development Manager | Xrobox Robomakers

(Full Time) MAR 2014 – JUL 2015

### Knowledge Management Expert | Omid Technologies

(Full Time) OCT 2013 – MAR 2014

### Research and Development Engineer | Xrobox Robomakers

(Full Time) JUN 2009 – SEP 2011