# Hashem Sadeghiyeh

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## Technical Skills

**PROGRAMMING LANGUAGES:** Python | R | SQL | MATLAB | HTML, CSS, Flask | Git

**DATA SCIENCE & MACHINE LEARNING:** Deep Learning/Neural Networks (TensorFlow | Keras | Image Processing with CNNs) | Natural Language Processing (nltk, spaCy, gensim) | Unsupervised Learning (K-Means | Clustering | PCA) | Linear & Logistic Regression, SVM, Decision Trees (Scikit-Learn) | Data Processing & Visualization (Numpy, Scipy, Pandas | Matplotlib | Seaborn | Bokeh | Altair) | Bayesian Data Analysis (JAGS, Stan, PyMC3)

## Education

**Data Scientist Certification – Fellowship Program | The Data Incubator | Anticipated Aug 2022**

**Ph.D. in Psychology/Cognition & Neural Systems | University of Arizona | May 2019**

**M.A. in Psychology | University of Tehran | Jul 2011**

**B.S. in Aerospace Engineering | Sharif University of Technology | Jul 2008**

## Experience

**Current Project:** wordpsych.net **Apr 2022 – present**

- Collected and analyzed over one billion posts and comments from reddit.
- Developed a model to predict mental health profile from texts.

**MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY** **Jun 2019 – Jun 2020**
**Postdoctoral Research Fellow**

- Analyzed collected behavior data from 1,650 participants. Uncovered incorrect methods for specific ranking data included.
- Developed and utilized R codes to appropriately analyze the participant data collected from the study. Quickly finished analysis and compiled in-depth results/reports.
- Reviewed correct results and shared the reports with the necessary stakeholders and cross-functional teams. Empowered team members with useful data that drove important decision-making processes.

**UNIVERSITY OF ARIZONA** **Nov 2015 – May 2019**
**Graduate Research Fellow**

- Using Python (HDDM /PyMC) and JAGS, applied hierarchical Bayesian analysis on drift diffusion models of decision-making
- Applied Maximum Likelihood (MLE) and Maximum a posteriori (MAP) methods to fit a logistic model to account for the relative role of information and rewards on exploratory decisions.

**COGNITIVE SCIENCE INSTITUTE** **Feb 2010 – Jul 2012**
**Lab Managerr**

- Synchronized TMS, EEG, and a central computer together so that the magnetic pulse delivered from the TMS and the signals delivered from the EEG were delivered at the proper time to the computer.
- Actively researched and selected different hardware and software tools. Synchronized the instruments and successfully concluded several other projects.
- Realized $50k in cost savings that was repurposed into upgrading the current computer, EEG, and TMS instruments. Purchased state-of-the-art equipment.

## Publications

5 first-author; 2 co-author; 6 conference presentations

Google Scholar