HOSNIEH SATTAR.

Birthday: 19.07.1988, Mashhad, Iran

hosna.sattar@gmail.com

EDUCATION

Roche Pharma Research and Early Development Informatics (pREDi)

August 2019 - Now

Postdoctoral researcher

In Area of Personalized Health Care

Max Planck Institute for Informatics, Saarbücken, Germany.

March 2015 - July 2019

PhD Student

Title: Search Intents and Preferences prediction based on Implicit Body Cues

Focus: Human intent prediction from gaze data. Body-shape modeling.

Supervisor: Dr. Mario Fritz

University of Tokyo, Kyoto, Japan.

Summer 2016

Machine Learning Summer School

Saarland University, Saarland Informatics Campus, Saarbücken, Germany.

2012 - 2014

M.Sc in Visual Computing

Title: Integration of Direct And Gradient Based Methods For Focus Fusion

Focus: Variational methods for low-level vision. Focus fusion.

Supervisor: Prof. Dr. Joachim Weickert

GPA: 1.8, A in US system

Islamic Azad University of Mashhad, Mashhad, Iran.

2008 - 2011

B.Sc in Biomedical Engineering

Title: Hand Gesture Detection Using a Home Webcam

Supervisor: Dr. Saeed Tosizadeh

GPA: 17.67 of 20, 1.7 German system, A in US system

PUBLICATIONS

Deep Gaze Pooling: Inferring and Visually Decoding Search Intents From Human Gaze Fixations, H. Sattar, M. Fritz, A. Bulling, *Journal of Neurocomputing 2020*

Intents and preferences prediction based on implicit human cues, H. Sattar, Doctoral Thesis, Saarlndische Universitts-und Landesbibliothek, doi:10.22028/D291-28192.

Shape Evasion: Preventing Body Shape Inference of Multi-Stage Approaches, H. Sattar, K. Krombholz, G. Pons-Moll, and M. Fritz, arXiv:1905.4505, 2019

Fashion is Taking Shape: Understanding Clothing Preference Based on Body Shape From Online Sources, H. Sattar, G. Pons-Moll, M. Fritz, WACV'19 This work was also presented at: CV-FAD@ECCV'18 and WiCV@ECCV'18 (oral)

Visual Decoding of Targets During Visual Search From Human Eye Fixations, H. Sattar, M. Fritz, A. Bulling, arXiv:1706.05993, 2017

Predicting the Category and Attributes of Visual Search Targets Using Deep Gaze Pooling, H. Sattar, A. Bulling, M. Fritz, MBCC@ICCV'17

Prediction of Search Targets From Fixations in Open-World Settings, H. Sattar, S. Müller, M. Fritz, A. Bulling, CVPR'15

Non invasive methods of blood glucose measuring methods for diabetic patients, E. Tahami, H. Sattar, S. Masoudnia, MCM2, Ferdowsi University of Mashhad, Iran, 2009

Comprehensive review of new methods of detecting decay with laser (Diagnodent) and comparison with other methods of caries detection, H. Sattar, S. Masoudnia, S. Elmirad, MCM2, Ferdowsi University of Mashhad, Iran, 2009

WORK EXPERIENCE Post doctoral Research Scientist 2019 - NowF. Hoffmann-La Roche AG, Basel, Switzerland. Student Research Assistant 2014 - 2015 Max-Planck Institute for Informatics, Saarbrucken, Germany. Supervisor: Prof. Andreas Bulling and Dr. Mario Fritz Conducted user studies and developed a model for estimating search targets from user gazed data. Student Research Assistant 2013 Lehrstuhl für Technische Mechanik, Saarland University, Saarbrücken, Germany. Supervisor: Dr. Michael Rola Implemented anisotropic diffusion filter for implant artifact detection in CT scan images. 2011 Student Research Assistant Mechatronic department, Saarland University, Saarbrücken, Germany. TEACHING EXPERIENCE Teaching Assistant, PDE and Boundary Value Problems 2013 - 2014 Saarland University, Saarbrücken, Germany. Supervisor: Dr. Darya Apushkinskaya Teacher For Persian Language 2013 Language Center of Saarland University, Saarbrücken, Germany. ACADEMIC SERVICE Reviewer: 2017 - Now AAAI, CVPR, ECCV, ICCV, IUI, TPAMI, Neurocomputing, OpenPlus. Student Volunteer Chair 2008 - 200915th Conference of Biomedical engineering of Iran Workshop Organizer 2008 Islamic Azad university of Mashhad, Iran. Laser in Dentistry Workshop, Research Methodology Workshop 2008 - 2010 Head of Student Scientific Committee Department of Biomedical Engineering, Islamic Azad university of Mashhad, Iran. TECHNICAL STRENGTHS **Programming Languages:** Python, Matlab, Bash, C, C++ Deep Learning Libraries: Caffe, TensorFlow, Torch, Keras

AWARDS

PhD scholarship by Max Planck Institute for Informatics.	2015 - 2019
Women In Computer Vision at ECCV'18 Travel Grant	2018
Selected as a member of the young researcher club of Islamic Azad university of Iran.	2008 - 2012
(award given to the top 1% of the students)	

CERTIFICATES

Algorithms: Design and Analysis, Stanford Online University	2019
Speaking and Acting with Impact	2017
Confidence - Drive - Success	2016
Workshop for doctoral researcher, Saarland University, Saarbrücken, Germany.	

PATENTS AND INVENTIONS

Designing and manufacturing a milk test pitcher for home users

M. H. Ghodsirad, H. Sattar, Patent Number: 65501, Tehran, Iran.

Designing and manufacturing the increasing focus device for hyperactive children

H. Sattar, M. H. Ghodsirad, Patent Number: 65497, Tehran, Iran.