

Khaled Jedoui

Curriculum Vitae

Stanford CA-94305
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Education

2016–present **B.S. at Stanford University**, *Mathematics Department*, Stanford, CA.

GPA: 3.91 Bachelors of science in **Mathematics**

- Advised by: Professor Emmanuel Candes
- Focus Areas: Linear Algebra, Optimization and Probabilities

Peer Reviewed Publications

JMIR 2019 **(Under Review) The Performance of Emotion Classifiers for Children with Autism: A Quantitative Feasibility Study.**

Haik Kalantarian, **Khaled Jedoui**, Kaiti Dunlap, Jessey Schwartz, Peter Washington, Arman Husic, Qandeel Tariq, Michael Ning, Aaron Kline, Dennis P. Wall, *Journal of Medical Internet Research*.

Elsevier 2019 **Labeling Images with Facial Emotion.**

Haik Kalantarian, **Khaled Jedoui**, Peter Washington, Qandeel Tariq, Kaiti Dunlap, Jessey Schwartz, Dennis P. Wall
Artificial Intelligence in Medicine.

IEEE 2018 **A Mobile Game for Automatic Emotion-Labeling of Images.**

Haik Kalantarian*, **Khaled Jedoui***(Equal Contribution), Peter Washington, Dennis P. Wall
IEEE Transactions on Games.

Manuscripts and Pre-prints

Arxiv 2019 **Deep Bayesian Active Learning for Multiple Correct Outputs.**
Khaled Jedoui, Ranjay Krishna, Michael Bernstein, Li Fei-Fei,

JMIR 2018 **The Limitations of Real-Time Emotion Recognition for Autism Research.**

Haik Kalantarian, **Khaled Jedoui**, Peter Washington, Qandeel Tariq, Michael Ning, Aaron Kline, Jessey Schwartz, Kaiti Dunlap, Dennis P. Wall, *Journal of Medical Internet Research*.

Research Experience

2018–present **Stanford Vision and Learning Lab**

Advised by Professor Fei-Fei Li, mentored by Ranjay Krishna

Current project: Compositional Concept Learning in Visual Tasks

Previous project: Uncertainty Estimation for Visual-Language Generation Models

2018–present **Stanford Human Computer Interaction Group**

Advised by Professor Michael Bernstein, mentored by Ranjay Krishna

Current project: Compositional Concept Learning in Visual Tasks

Previous project: Uncertainty Estimation for Visual-Language Generation Models

2017–present **The Wall Lab at Stanford School of Medicine**
Advised by Professor Dennis P. Wall, mentored by Haik Kalantarian, PhD
Investigating mobile and ubiquitous computing technologies for emotion detection in Autism

Summer 2017 **The Labeaud Lab at Stanford School of Medicine**
Applying machine learning techniques in Rift Valley Fever virus diagnosis and outbreak prediction

Professional Activities

Workshop Organization

2019 *Program Committee of the Scene Graph Representation and Learning workshop at IEEE International Conference on Computer Vision 2019*

Non-research related work

2016–2018 **Associated Students of Stanford University (ASSU)**

Assistant Election Commissioner

Assisted in overseeing and organizing the ASSU Student Government Elections, implementing policies to increase voter turnout and redesigning the elections website

2016–2018 **Stanford Office of the Vice Provost for Teaching and Learning Technical Systems**

Student Image Developer

Assisted in developing, maintaining, updating and deploying operating systems images for managed computers in public, residential and library environments.

Selected Course Projects

Spring 2019 **Soccer Transfer Efficacy Modeling**

MCS 100: Mathematics of Sports

Spring 2018 **Deep Learning for Abdominal X-Ray Abnormality Screening**

Data provided by AIMI: Center for Artificial Intelligence in Medicine and Imaging

CS 231N: Convolutional Neural Networks for Visual Recognition

Spring 2018 **Deep Learning for Chest X-Ray Abnormality Screening**

CS 229A: Applied Machine Learning

Winter 2018 **Jet Clustering Algorithm for Analysis of Particle Collisions at the Large Hadron Collider using Deep Learning**

Data provided by Professor Ariel Schwartzman from SLAC National Accelerator Laboratory

CS 230: Deep Learning

Awards and Honors

Academic

2016–2020 **Craig and Susan McCaw Scholar**

A Stanford University 4-year Full Ride scholarship for exceptional students in developing countries.

Non-Academic

2008–2014 National Swimmer

4 times National Champion (4 Gold, 2 Silver, 3 Bronze)

Represented the Tunisian Swimming National Team and CNBA Swimming Club

2013–2015 Water Polo player

Played for CNBA Water Polo

National Champion and National Cup winner in 2015

 **Languages**

Arabic: Native, English: Fluent, French: Fluent, Italian: Basic