



# BILAL ABDUL RAHMAN

AI/ML ENTHUSIAST

## PROFILE

Jack of all trades computer scientist with over 10 years of experience in fields ranging from computer vision and machine learning research to business development, software development, and network implementation.

## CONTACT

+973 39731377

bilal.z.work@gmail.com

www.linkedin.com/in/bilalze

https://github.com/bilalze

Bahrain

## EDUCATION

### P.H.D COMPUTER SCIENCE

NYU/ CUNY Graduate Center, NY, NY | Sep 2022 - 2025

### M.SC. DATA SCIENCE

CUNY Graduate Center, NY, NY | 3.9 GPA

### B.SC. ELECTRONICS ENGINEERING

University of Bahrain, Bahrain | 3.56 GPA

## SKILLS

Machine learning



Python



Computer Vision



Research



## SOFT SKILLS

Fast Learner

Team Player

Decision Making

Communication

Time Management

Leadership

Conflict Resoution

Self-motivation

Ability to Work Under Pressure

## INTERESTS



Machine learning/AI



Computer Vision



Entrepreneurship



Cars



Fitness

## PUBLICATIONS

### ◆ SMART ASSISTIVE SYSTEM FOR LABORERS

#### Authors

Bilal AbdulRahman, Omar Al-Dirini, A. Rahman Al Jubury, Dr. Zouhir Bahri

#### Conference

IEEE Smart Cities Symposium  
April 2018

### ◆ SOCIAL DISTANCING USING DEEP LEARNING AND 3D COMPUTER VISION

#### Authors

Bilal AbdulRahman, Dr. Zhigang Zhu

#### Conference

AI For Social Good Symposium  
Fall 2020

#### Presentation

<https://www.youtube.com/watch?v=Lf4d5cKZBBs>

### ◆ ABSOLUTE-ROMP: ABSOLUTE MULTI-PERSON 3D MESH PREDICTION FROM A SINGLE IMAGE

#### Authors

Bilal AbdulRahman, Dr. Zhigang Zhu

#### Conference

Computer Vision Theory and Applications (VISAPP)  
Spring 2023

### ◆ REAL-TIME PEDESTRIAN POSE ESTIMATION, TRACKING AND LOCALIZATION FOR SOCIAL DISTANCING

#### Authors

Bilal AbdulRahman, Dr. Zhigang Zhu

#### Journal

Machine vision and applications  
Spring 2023

### ◆ NIDA-CLIFGAN: NATURAL INFRASTRUCTURE DAMAGE ASSESSMENT THROUGH EFFICIENT CLASSIFICATION COMBINING CONTRASTIVE LEARNING, INFORMATION FUSION AND GENERATIVE ADVERSARIAL NETWORKS

#### Authors

Dr. Jie Wei, Dr. Zhigang Zhu, Erik Blasch, Bilal Z AbdulRahman, Billy Davila, Shuoxin Liu, Jed Magracia, Ling Fang

#### Conference

NeurIPS  
Fall 2021

## COMMUNITY INVOLVEMENT

### ◆ FREQUENT REVIEWER FOR MACHINE VISION AND APPLICATIONS(MVAP) JOURNAL March 2021 - Current

## EXPERIENCE

### ◆ ADJUNCT PROFESSOR (DATA SCIENCE) CUNY Baruch College, NY, NY | January 2024 - Current

- Teach CIS courses on data science and analytics

### ◆ RESEARCH ASSISTANT CITY COLLEGE VISUAL COMPUTING LAB, NY, NY | October 2021 - Current

- Perform Research employing/inventing machine learning techniques in the field of Computer Vision, NLP etc
- Solve research problems pertinent to real world projects.

### ◆ RESEARCH ASSISTANT Sippa Solutions LLC, NY, NY | June 2020 - September 2020

- Perform Research related to diabetes patients and the Sippa app
- Implement improvements on the Sippa App on the android platform
- Hold interviews with participants to understand how the program affects them

### ◆ DATA ANALYST (INTERN) pyypl, Dubai, UAE | November 2019 - January 2020

- Perform data analysis of company data and create reports pertinent to the workflow of the company

### ◆ FREELANCER Fiverr, USA | November 2018 - November 2019

- Create Android applications, excel macros and perform data analytics on clients request

### ◆ SOFTWARE DEVELOPER/PROJECT TECHNICAL LEAD INNSYS International, Bahrain | September 2017 - August 2018

- Tasked with complete role out of a whole pack of new IT solutions (SaaS) performing tasks such as coding new software from scratch, network analysis, hardware integration, website management etc
- Working with large-scale businesses such as ALMEER GROUP, BBMGco(Fuddruckers, Marble slab creamery), Mesk Holdings, Almoayyed Group etc.

## HONOR AWARDS

### ◆ 3RD PLACE- AFOSR OVERHEAD IMAGERY HACKATHON

[Awarding Body](#)

Air Force Office of Scientific Research  
September 2021

- A systematic effort to achieve efficient building damage classification.
- Designed two novel generative adversarial networks (GANs) to generate augmented data and developed a contrastive learning based method to achieve improvement in speed and accuracy, matching state of the art while employing 10x less parameters.
- Results demonstrate data and computational efficiency reducing the time of computation from roughly half a day to about 1 hour with roughly similar classification performance.

### ◆ WINNER- RESEARCH POSTER COMPETITION

[Awarding Body](#)

CUNY Graduate Center  
September 2020

- Created Poster visualizing my publication "Social distancing using deep learning and 3d computer vision"
- Created Youtube video presenting poster: <https://www.youtube.com/watch?v=Lf4d5cKZBBs>
- Able to win first prize of \$1000

### ◆ WINNER - BEST GRADUATION PROJECT

[Awarding Body](#)

University of Bahrain  
September 2017

- Created novel three fold system to assist laborers working in very hot climates
- Able to secure first prize for project which also led to publication and startup product

### ◆ ACADEMIC EXCELLENCE AWARD

[Awarding Body](#)

University of Bahrain  
January 2016

- Awarded academic excellence award for maintaining 4.0 GPA for 1 semester year
- Able to secure full scholarship and per semester stipend

## CERTIFICATIONS

### ◆ MACHINE LEARNING FOR DATA SCIENCE AND ANALYTICS

[Awarding Body](#)

Columbia University  
September 2019

### ◆ ORACLE PL/SQL DEVELOPER CERTIFIED ASSOCIATE

[Awarding Body](#)

Oracle  
October 2019

### ◆ GEORGETOWN FINTECH PROGRAM

[Awarding Body](#)

GeorgeTown University  
January 2020