# Hayder Y. Yousif



#### About me

Highly responsible and adaptable manager with 17 years of experience supporting executives in the academic and IT sectors. An excellent researcher trying to propose novel methods in different Al applications and compete with others. Having long-term with good reputation teaching experience for undergraduate and graduate students. Software and web designer for AI and e-governance transformation.

#### personal

Hayder Y. Yousif Nationality: Iraq, 1983 Married, two children

#### Areas of specialization

Artificail Intelligence · Machine Learning • Image Processing • Video Processing

#### **Hopies**

Farming electrical installation Cooking Sports (tennis, soccer, and jog-Watching movies

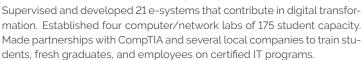
- hayder.yaqoob@stu.edu.iq
- @HayderYousif23
- haider.jacob
- HayderYousif

# RECENT RESUMÉ

2021-now

#### **IT Center Manager**

SOUTHERN TECHNICAL UNIVERSITY, · IQ 9





## Head of the Electrical Engineering Tech. Department

SOUTHERN TECHNICAL UNIVERSITY, · IQ 9

One of the pioneers in e-learning during and after the COVID-19 pandemic, has a training certificate for professional e-learning from IREX, managed to help university staff and students to set their new roles.

2019-now

## **University Lecturer**

BETC · Basra, IQ 9

Microprocessor for graduate students-Spring 2020, Cybernetics and neural networks for graduate students- Fall 2020, AI for graduate students-Fall 2021, Fall 2022, and Fall 2023. Numerical and Engineering Analysis for undergraduate studies 2019- till now.





## **DEGREES**

2019 PhD in Computer Engineering

MU UNIVERSITY · MO, USA

2019 Msc. in Engineering

MU UNIVERSITY · MO, USA

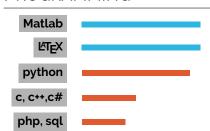
2008 Msc. in Computer Engi-

neering University of Basra, · IQ

2005 Bsc. in Computer Engineering

UNIVERSITY OF BASRA. · IQ

## Programming





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# Curriculum

2017–2019 | Research Assistant

MU UNIVERSITY · Columbia, MO, USA 💡

Working on NFS funded project.

2010–2013 University Lecturer

BETC · Basra, IQ 💡

Teaching Math, Digital signal processing and computer applications for the

undergraduate studies.

2009-2010 | **NSS Engineer** 

Asiacell HQ · Basra, IQ 💡

Network switching maintenance for telecomunnication system.

2009-2010 | Maintenance Engineer

GULF COMMERCIAL BANK · Basra, IQ 💡

Hardware and software maintenance for the banking system





# **AWARDS & GRANTS**

2020 Wiley (Most downloaded paper 2018 and 2019)

2019 Microsoft Competition (WildCam-2019), ranked the 3rd out of more than

300

**2019-2024** More than 15 effort appreciation letters from Chancellors and Deans at

STU, Iraq

**2017-2019** Grant from Microsoft AI for Earth

2017 Internship at North Carolina Museum of Natural Sciences2016 Internship at North Carolina Museum of Natural Sciences

# Languages

English C1 • • • • Arabic C2 mother tongue

# REVIEWER SUMMARY

(34) IEEE Transactions on Circuits and Systems for Video Technology

(28) IEEE Access

(7) Journal of the ASABE

(6) Methods in Ecology and Evolution

(4) Applied Engineering in Agriculture

(2) IEEE Computer Magazine

(2) Ecology and Evolution

(2) The Journal of Engineering

(2) IEEE Transactions on Industrial Informatics

(1) Artificial Intelligence Review

(1) Wildlife Biology

(1) Concurrency and Computation

## **PUBLICATIONS**

- Yousif, Hayder, and Zahraa Al-Milaji. "Fault detection from PV images using hybrid deep learning model." Solar Energy 267 (2024): 112207.
- Yousif, Hayder, and Zahraa Al-Milaji. "Hierarchical Feature Mining for Image Classification and Segmentation." In IMDC-IST 2021: Proceedings of 2nd International Multi-Disciplinary Conference Theme: Integrated Sciences and Technologies, IMDC-IST 2021, 7-9 September 2021, Sakarya, Turkey, p. 108. European Alliance for Innovation, 2022.
- **2021** Ahmed A, Yousif H, He Z. Ensemble diversified learning for image classification with noisy labels. Multimedia Tools and Applications. 2021 Jun;80:20759-72.
- Ahmed, Ahmed, Hayder Yousif, Roland Kays, and Zhihai He. "Animal species classification using deep neural networks with noise labels." Ecological Informatics 57 (2020): 101063.
- 2019 Ahmed, Ahmed, Hayder Yousif, Roland Kays, and Zhihai He. "Semantic region of interest and species classification in the deep neural network feature domain." Ecological Informatics 52 (2019): 57-68.
- **2019** Yousif, Hayder, Jianhe Yuan, Roland Kays, and Zhihai He. "Animal Scanner: Software for classifying humans, animals, and empty frames in camera trap images." Ecology and evolution 9, no. 4 (2019): 1578-1589.
- **2019** Yousif, Hayder. "Deep neural networks for animal object detection and recognition in the wild." PhD diss., University of Missouri-Columbia, 2019.
- 2018 Oraibi, Zakariya A., Hayder Yousif, Adel Hafiane, Guna Seetharaman, and Kannappan Palaniappan. "Learning local and deep features for efficient cell image classification using random forests." In 2018 25th IEEE International Conference on Image Processing (ICIP), pp. 2446-2450. IEEE, 2018.
- **2018** Yousif, Hayder, Jianhe Yuan, Roland Kays, and Zhihai He. "Object detection from dynamic scene using joint background modeling and fast deep learning classification." Journal of Visual Communication and Image Representation 55 (2018): 802-815.
- 2017 Yousif, Hayder, Zhihai He, and Roland Kays. "Object segmentation in the deep neural network feature domain from highly cluttered natural scenes." In 2017 IEEE International Conference on Image Processing (ICIP), pp. 3095-3099. IEEE, 2017.
- 2017 Yousif, Hayder, Jianhe Yuan, Roland Kays, and Zhihai He. "Fast human-animal detection from highly cluttered camera-trap images using joint background modeling and deep learning classification." In 2017 IEEE international symposium on circuits and systems (ISCAS), pp. 1-4. IEEE, 2017.

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