

Yasmina Al Khalil

MSc Electrical and Computer Engineering

Skype

+385 91 952 5454
yasmina.alkhalil

Mail

yasmina.alkhalil@
gmail.com
y.al.khalil@
tue.nl

LinkedIn

/in/yasmina-alkhalil/

Personal Information

DoB: 23/10/1992
Place of Birth: Zagreb,
Croatia
Nationality: Croatian
Permanent Residence:
Zagreb, Croatia
Current Residence:
Hamburg, Germany

Experience

- 10/18 - **PhD Candidate** [Eindhoven University of Technology, Eindhoven, Netherlands](#)
PhD researcher in the Medical Image Analysis group of the Biomedical Engineering Department at Eindhoven University of Technology. Her research focuses on developing accurate and robust acquisition-independent MRI segmentation methods as a part of the OpenGTN project supported by the Marie Curie Innovative Training Networks fellowship program. A part of her research is conducted at Philips Research Hamburg.
- 11/15 - 08/18 **Teaching Assistant of Electrical and Computer Engineering** [Abu Dhabi University, Abu Dhabi, UAE](#)
Course instructor of Introduction to Electrical and Computer Engineering in Spring 2017/2018 semester. Responsible for conducting and managing lab and tutorial sessions, maintaining lab environment and equipment, assisting students with their course and final year capstone projects, and extracurricular activities. Providing assistance to faculty members in conducting courses, proctoring, grading, and various learning and administrative activities.
- 09/14 - 08/18 **Research Assistant** [Abu Dhabi University, Abu Dhabi, UAE](#)
Actively participating in research related to computer vision, machine learning, mobile computing, embedded systems, digital signal processing, and biomedical engineering applications.
- 11/14 - 06/15 **Tutor** [Sylvan Learning, Abu Dhabi, UAE](#)
Tutoring high school students in Physics, Mathematics and English.
- 01/15 - 03/15 **Internship in the ERP Office** [Abu Dhabi Knowledge Group, Abu Dhabi, UAE](#)
Database administration and management in an Oracle based database and Web Services development.

Education

- 2018- 2022 **Doctor of Philosophy in Biomedical Engineering** [TU/e, Eindhoven, Netherlands](#)
PhD researcher in the Medical Image Analysis group of the Biomedical Engineering Department at Eindhoven University of Technology.
- 2015 - 2017 **M.Sc. in Electrical and Computer Engineering** [Abu Dhabi University](#)
Obtained an M.Sc. degree in a program that focuses on tackling complex problems in the areas of embedded systems, robotics, Internet of Things, machine learning, signal processing and biomedical imaging.
Title of the Thesis: "A Gamification Framework for Skill-based Learning Outcomes with Feedback using Problem Solving as a Service and Augmented Reality". Supervisor: Dr. Mohammed Ghazal
- 2011 - 2015 **B.Sc. in Computer Engineering** [Abu Dhabi University](#)
Focus on embedded systems design, digital signal processing, computer Vision, mobile Applications and web development.
Capstone Title: "UAV-based Remote Sensing for Vegetation Cover Estimation Using NDVI Imagery and Level Sets Method". Supervisor: Dr. Mohammed Ghazal
- 2007 - 2011 **High-school Diploma** [Fifth Secondary School, Zagreb, Croatia](#)
Scientific Secondary School, Mathematics and Computer Science Program.

Publications

Proficiency

Matlab	★★★★★
Python	★★★★★
Tensorflow	★★★★★
Keras	★★★★★
Javascript	★★★★★
HTML/CSS	★★★★★
Android	★★★★★
C/C++	★★★★★
Java	★★★★★
LaTex	★★★★★
PyTorch	★★★★★
PHP	★★★★★
jQuery	★★★★★
SQL	★★★★★
Bash	★★★★★
VHDL	★★★★★
C#	★★★★★
Ruby	★★★★★

Other Skills

- PCB Design
- Native and Cross Platform Mobile Application Development
- Web Design and Development
- Micro-controller programming and interfacing
- Wireless communication (Wi-Fi, RF, IR, Bluetooth, GSM, Zigbee)
- Thermal and Hyperspectral Imaging
- Computer Vision and Pattern Recognition
- Deep Learning

- H. Abdeltawab, M. Shehata, A. Shalaby, S. Mesbah, M. El-Baz, M. Ghazal, Y. Al Khalil, M. Abou El-Ghar, A. C. Dwyer, M. El-Melegy, G. Giridharan, and A. El-Baz **A Novel Framework Based on Using 3D-CNN for Precise and Early Detection of Acute Renal Transplant Rejection**
International Conference on Pattern Recognition, Beijing, China, 20-24, 2018
- M. Ghazal, Y. Al Khalil, and A. El-baz
An Unsupervised Parametric Mixture Model for Automatic Cerebrovascular Segmentation
A. El-Baz and J. Suri, Cardiovascular Imaging and Image Analysis, Taylor & Francis
- M. Ghazal, T. Al-Hadithy, Y. Al Khalil, M. Akmal, and H. Hajjdiab
A Mobile-Programmable Smart Mirror for Ambient IoT Environments
The 4th International Workshop on Mobile Applications 2017, Prague, Czech Republic, August 21-23, 2017
- M. Akmal, S. Ali, Y. Al Khalil, N. Iqbal, S. Alzaabi, and A. Al Tarabsheh
Integration of Solar Energy and Optimized Economic Dispatch Using Genetic Algorithm: A Case-study of Abu Dhabi
9th International Conference on Computer Modelling and Simulation, UKSim2017, London, UK, April 05-07, 2017
- M. Ghazal, F. Haneefa, S. Ali, Y. Al Khalil, and A. Sweleh
A Framework for Teaching Robotic Control Using a Novel Visual Programming Language
2016 IEEE 59th Midwest Symposium on Circuits and Systems, Abu Dhabi, United Arab Emirates, October 16-19 2016
- M. Ghazal, Y. Al Khalil, F. Haneefa, A. Mhanna, D.H. Awachi, and S. Ali
Towards Secure Mobile Process Tracking using Wearable Computing in mGovernment Applications
MobiApps 2016 : The 3rd International Workshop on Mobile Applications, Vienna, Austria, August 22-24, 2016
- M. Ghazal, S. Ali, M. Alhalabi, N. Ali, and Y. Al Khalil
Smart Mobile-based Emergency Management and Notification System
MobiApps 2016 : The 3rd International Workshop on Mobile Applications, Vienna, Austria, August 22-24, 2016
- M. Ghazal, Y. Al Khalil, A. Mhanna, and F. Dehbozorgi
Mobile Panoramic Video Maps Over MEC Networks
2016 IEEE Wireless Communications and Networking Conference Workshops (WCNCW), Doha, Qatar, April 03-06, 2016
- M. Ghazal, Y. Al Khalil, S. Ali, F. Haneefa, and E. Rashed
Archival and Retrieval of Lost Objects using Multi-feature Image Matching in Mobile Applications
International Journal of Computing and Digital Systems, Vol. 5, Issue 1, January 2016
- M. Ghazal, Y. Al Khalil, and H. Hajjdiab
UAV-based Remote Sensing for Vegetation Cover Estimation Using NDVI Imagery and Level Sets Method
5th IEEE International Symposium on Signal Processing and Information Technology 2015, Abu Dhabi, UAE, December 07-10, 2015
- M. Ghazal and Y. Al Khalil
IoT Smartphone Controlled Secure Submission of e-Assessments

Languages

English ★★★★★
Croatian ★★★★★
German ★★★★★
Arabic ★★★★★
Spanish ★★★★★

2015 International Symposium on Web of Things and Big Data, Manama, Bahrain, October 18-20, 2015

- M. Ghazal, Y. Al Khalil, F. Dehbozorgi, M. Alhalabi
An Integrated Caregiver-focused mHealth Framework for Elderly Care
11th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), Abu Dhabi, UAE, October 19-21, 2015
- M. Ghazal, F. Haneefa, S. Ali, E. Rashed, and Y. Al Khalil
Mobile-Based Archival and Retrieval of Missing Objects Using Image Matching
3rd IEEE International Conference on Future Internet of Things and Cloud (FiCloud), Rome, Italy, August 24-26, 2015

Honors and Awards

Other Interests

- Travel
- Photography
- Volunteering
- Drawing and Art
- Trekking

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| 2018 | Think Science Competition, 2nd Place in Uni-Smart Systems and Artificial Intelligence Category Dubai, UAE
Supervised a group of students with the project Smart Self Driving Vehicle. |
| 2017 | Abu Dhabi University Professional Achievement Award Abu Dhabi, UAE
Awarded in recognition of the contribution to the success of Abu Dhabi University in Academic Year 2016-2017 |
| 2017 | 4th Place in the International Robotics for Good Competition Dubai, UAE
ICT Fund |
| 2016 | 1st Place in NASA Space-Apps 2016 Hackathon Abu Dhabi, UAE
1st Place on Abu Dhabi level and Nominee in the world-wide challenge |
| 2015 | Best Paper Award Abu Dhabi, UAE
5th IEEE International Symposium on Signal Processing and Information Technology 2015 |
| 2015 | Best Paper Award Abu Dhabi, UAE
11th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob) |
| 2015 | 5th Place-10th Mobile Applications Contest Abu Dhabi, UAE
Lost and Found Mobile Application |
| 2015 | Best mGovernment Service Award of 1,000,000 AED Dubai, UAE
1st place: A special Award for Innovation with Al Najda Mobile Application sponsored by the Office of the UAE Prime Minister Sheikh Mohammed Bin Rashid Al Maktoum |
| 2015 | 3rd Place Award in the Ministry of Interior Smartphone Application Competition Abu Dhabi, UAE
3rd place award for Al Najda Mobile Application |
| 2014 | 1st Place in the mGov Developer Jam Dubai, UAE
The Big Entertainment Show Dubai hosted by TRA |
| 2014 | 1st Place in the Digital Arabic Content Competition Abu Dhabi, UAE
United Nations Economic and Social Commission for Western Asia |
| 2014 | 2nd Place in the 5th Abu Dhabi University Chancellor's Innovation Award 2014/2015 Abu Dhabi, UAE
2nd place award with the Advanced Technology Center Web Portal |
| 2014 | Best mGovernment Service Award, UAE Dubai, UAE
Among top 10 with MGov Mobile Application |
| 2012-2015 | A Certificate of Excellence for Outstanding Achievement from Abu Dhabi University Abu Dhabi, UAE |