

EDUCATION

- **University College London** London, UK
PhD in Computer Science Mar. 2020 – Present
- **Nile University** Giza, Egypt
MSc in Informatics; GPA: 3.93 Oct. 2017 – Dec. 2019
- **Mansoura University** Mansoura, Egypt
BSc in Biomedical Engineering; GPA: 3.74 (Class Rank: 1st) Sept. 2012 – July. 2017

EXPERIENCE

- **University College London** London, UK
PhD Student Mar. 2020 - Present
 - Supervisors: [Prof. Daniel Alexander](#) and [Prof. David Barber](#)
 - Topic: Machine Learning for High-Resolution Lung Image Analysis
 - Full scholarship funded by the Open Source Imaging Consortium (OSIC)
 - Participated in the organisation of the first OSIC Kaggle challenge for predicting Idiopathic Pulmonary Fibrosis progression [Link](#)
 - Supervised students in the COMP0016 course with the following projects (Autumn 2020 & Winter 2021):
 - * NHS at Home initiatives with the RCGP (in collaboration with the NHS and GOSH DRIVE)
 - * IBM FISE v2 Open Source Apps - social isolation assistance with simplified calling (in collaboration with IBM)
 - * IBM3 Open Source Federated "alexa" like devices - "Ask Bob" (in collaboration with IBM)
 - * Unbounded evaluation of sequences in videostream events
- **Data Science Systems** London, UK
Machine Learning Consultant Oct. 2020 - Feb. 2021
 - Supported a private project related to exploring AI methods for lung image analysis
- **Intixel** Cairo, Egypt
Senior Machine Learning Engineer Nov. 2019 - Mar. 2020
 - Worked on developing deep learning algorithms for chest abnormalities detection and localization from X-Ray scans
- **Inception Institute of Artificial Intelligence (IIAI)** Abu Dhabi, UAE
Research Intern Mar. 2019 - Aug. 2019
 - Line manager: [Dr. Shadab Khan](#)
 - Worked on weakly supervised methods for class-agnostic medical image segmentation to alleviate data scarcity problem
- **Nile University** Giza, Egypt
Research Assistant Oct. 2017 - Feb. 2019
 - Worked on applications of deep neural networks in medical image segmentation and diagnosis
 - Taught CSCI304 Design and Analysis of Algorithms course for undergraduates
- **Mansoura University** Mansoura, Egypt
Teaching Assistant Feb. 2018 - Jun. 2018
 - Taught COM123 Electronic Measurements course for undergraduates
- **Moussa Academy** Online
Instructor, Freelancer Aug. 2015 - Jun. 2018
 - Taught the following courses through online tutorials for university students: Math251 Linear Algebra, Stat201 Quantitative Methods, Math150 Discrete Mathematics, Stat101 Statistics and Probability.

PUBLICATIONS

- S Khan*, **AH Shahin***, J Shen, L Shao, “*Extreme Points Derived Confidence Map as a Cue For Class-Agnostic Interactive Segmentation Using Deep Neural Network*”, *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI’19)*, 66-73. (early acceptance, travel award, *=equal contribution) [Link](#)
- **AH Shahin**, K Amer, MA Elattar, “*Deep Convolutional Encoder-Decoders with Aggregated Multi-Resolution Skip Connections for Skin Lesion Segmentation*”, *2019 IEEE 16th International Symposium on Biomedical Imaging (ISBI’19)*, 451-454. [Link](#)
- **AH Shahin**, A Kamal, MA Elattar, “*Deep Ensemble Learning for Skin Lesion Classification from Dermoscopic Images*”, *2018 9th Cairo International Biomedical Engineering Conference (CIBEC’18)*, 150-153. [Link](#)
- **AH Shahin**, P Munjal, L Shao, S Khan, “*FAIRS: Soft Focus Generator and Attention for Robust Object Segmentation from Extreme Points*”, Arxiv preprint. [Link](#)
- G Ali, **AH Shahin**, M Elhadidi, MA Elattar, “*Convolutional Neural Network with Attention Modules for Pneumonia Detection*”, *2020 International Conference on Innovation and Intelligence for Informatics, Computing and Technologies (3ICT)*, 1-6. [Link](#)

SCHOLARSHIPS AND AWARDS

- Full scholarship funded by OSIC for PhD at UCL, 2020
- MICCAI Graduate Student Participation Award, Online, 2020
- MICCAI Graduate Student Travel Award, Shenzhen, China, 2019
- Full scholarship funded by Banque Misr for master’s degree at Nile University, 2017

VOLUNTEERING

- Reviewer for the International Journal of Computer Vision (IJCV)
- Reviewer for the Novel Intelligent and Leading Emerging Sciences Conference (NILES’19)
- Mentored an undergraduate intern at the centre for informatics sciences, Nile University

SKILLS

- **Programming Languages:** Python (proficient), familiar with C++, Matlab
- **Data Science Libraries:** PyTorch, Keras, Numpy, Pandas, Sickit-learn
- **Languages:** English (proficient), Arabic (Native)