

## EDUCATION

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- **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

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- **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
  - Working on machine learning methods for the prognosis and diagnosis of Interstitial Lung Diseases from medical images and other clinical information.
  - 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](#)
  - Responsible for doing quality checks on the clinical data contributed by OSIC institution members to [OSIC repository](#).
  - Worked as a TA for COMP0090 (Introduction to Deep Learning) and COMP0016 (Systems Engineering) courses.
- **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
  - Supervisor: Dr. Mustafa Elattar
  - Worked on applications of deep neural networks in medical image segmentation and diagnosis
  - Taught CSCI304 Design and Analysis of Algorithms course for undergraduates

## PUBLICATIONS (NO. OF CITATIONS: 65)

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- **AH Shahin**, J Jacob, D Alexander, D Barber, “Survival Analysis for Idiopathic Pulmonary Fibrosis using CT Images and Incomplete Clinical Data”, *Medical Imaging with Deep Learning (MIDL’22)*, in review. [Link](#)
- **AH Shahin\***, S Khan\*, 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

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- 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.
- Partial scholarship from Mansoura University for outstanding academic performance, (2013 - 2017).

## VOLUNTEERING

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- Reviewer for the International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI’22).
- Reviewer for IEEE Access Journal.
- 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

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- **Programming Languages:** Python (proficient), familiar with C++, Matlab.
- **Machine Learning Libraries:** PyTorch (proficient), TensorFlow, Scikit-learn.
- **Languages:** English (proficient), Arabic (native).