Ahmed H. Shahin

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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. David Barber and Prof. Daniel Alexander
  - 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 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 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: 66)

- **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 Conference* ***(MIDL'22)****.* **(Oral)** 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)****.* **(early acceptance, travel award)** 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)****.* 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).* Link

- **AH Shahin**, P Munjal, L Shao, S Khan,*"FAIRS: Soft Focus Generator and Attention for Robust Object Segmentation from Extreme Points"*, Arxiv preprint, 2020. 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)*. 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.
- Partial scholarship from Mansoura University for outstanding academic performance, (2013 - 2017).

Volunteering

- 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

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