Jingnan JIA（贾京南）

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Education

2019–Now	**Leiden University**, Leiden, the Netherlands. *Ph.D in Deep Learning Based Medical Image Analysis*	
2016–2019	**Xidian University**, Xi'an, China. *M.Sc. in Electromagnetic Field and Wave*	IELTS:7 | Grade: 85.66
2011–2015	**Taiyuan University of Technology**, Taiyuan, China *B.Eng. in Applied Physics*	GPA: 3.45

Publications

- **Jia, J.**, Staring, M., Hernández-Girón, I., Kroft, L. J., Schouffoer, A. A., & Stoel, B. C. (2022, April). Prediction of lung CT scores of systemic sclerosis by cascaded regression neural networks. In *Medical Imaging 2022: Computer-Aided Diagnosis* (Vol. 12033, pp. 837-843). SPIE.

- **Jia, J.**, Zhai, Z., Bakker, M. E., Hernández-Girón, I., Staring, M., & Stoel, B. C. (2021, April). Multi-task Semi-*supervised* Learning for Pulmonary Lobe Segmentation. In *2021 IEEE 18th International Symposium on Biomedical Imaging (ISBI)* (pp. 1329-1332). IEEE.

- Wang, Y., Lan, W., Li, N., Lan, Z., Li, Z., **Jia, J.**, & Zhu, F. (2019). Stability of nonfullerene organic solar cells: from built‑in potential and interfacial passivation perspectives. *Advanced Energy Materials*, 9(19), 1900157.

- Wen, J., Jiao, Y. C., Zhang, Y. X., & **Jia, J** (2019). Wideband circularly polarized dielectric resonator antenna loaded with *partially* reflective surface. *International Journal of RF and Microwave Computer‑Aided Engineering*, 29(12), e21962.

- **Jia, J.**, YC, J. A UWB MIMO Antenna with High Isolation. *NCMMW*, 2018

Achievements/Honors

2021	Top 3 at the UCL Medical Image Compting Summer School (MedICSS)
2021	Reviwer of journal Medical Image Analysis
2021	Best Student Paper Award finalist in 2022 SPIE: Medical Imaging
2018	Second-level Scholarship in postgraduate school
2015	Outstanding graduate in undergraduate university
2014	National Bronze Medal, National College Student Business Plan Competition (The only 1 in my university)
2013	Academic Scholarship, awarded to annual top 3 students of the college
2012	Science & Technology Scholarship, awarded to students who are pretty innovative
2011	Excellent Student Leader, Best University Debater

Experiences

Participants in different competitions/challenges

- Pulmonary artery segmentation challenge	2022
- Covid-19 Lung CT lesion segmentatin challenge	2020
- Other kaggle challenges	Before 2019

During these competitions I became more familiar with different machine learning algorithms, data processing, feature extraction and visualization techniques.

English oral interpreter (volunteer) 2019
In the 'One Belt and One Road' international conference organized by the Xi'an government, I was the interpreter for the president of Cairo University, Egypt.

Part-time research assistant 2018
Under the supervision of Prof. Wang Yi (National "Thousand People Plan" Specially-invited Expert), we conducted research on advercisial and poisoning attacks against deep learning models which are pretty crutial and challenging problems in data privacy & security.

Team leader of the Innovation Competition at Taiyuan University of Technology. The team developped a smart-home-system based on a single-chip.

President of the College Association for the Science & Technology 2012
Organized academic activities including mathematical contests and academic forums, etc. Founded and desgined the departmental website, responsible for the website maintainance and updates.

Skills

- Programming languages: Python, MATLAB, Bash, and C.
- Deep learning tools: Pytorch, Keras and TensorFlow.
- Third-party python packages: MLFlow, MONAI, SimpleITK, Lighting, Ignite, TorchIO, etc.
- Other tools: Linux, Vim, Latex, Git, Jekyll, Sphinx, Docker,.
- Language: Mandarin (native) and English (IELTS: 7, CET6: 527).

Other activities

- Developed and maintained an open sourse package: **seg-metrics** for 2D/3D medical image segmentation metrics calculation, including precision, dice, hausdorff distance, etc. Downloads per months: 500 times.
- Developed and maintained my personal website: **https://jingnan-jia.github.io**. More of my information could be found there.
- Oral presentation in ISBI2021 and SPIE2022
- Student member of IEEE, SPIE and ISBI.