Supplementary Information to be provided by the student:

A **Please describe briefly any subject specific research skills that you have developed or improved in the course of your time as a research student. For example, these might include: research methodology; data analysis and management; record keeping; bibliographical skills; presentation of research.**

Skills that I have developed and improved in the course of my time as a Probationary Research Student:

- MATLAB Programming skill for data analysis and data cleaning
- Python Programming skill for deep learning and data analysis
- Deep learning framework: Pytorch, Tensorflow and Keras
- Presentation of my own research using diagrams and mathematical equations
- Searching for literatures related to my research topics
- Literature review and summarization
- Academic writing
- Visualizing and Processing three-dimensional medical images using software, such as ITK-SNAP and MITK Workbench
- Using Github to keep track of my research progress (i.e. written codes)
- Manuscript writing using LaTeX

B **Please describe briefly any personal and professional skills in which you have received training or which you have enhanced during the course of your time as a research student. For example, these might include: time management; language skills; IT skills; team work; problem solving; presentation skills; teaching skills; career planning.**

- Time management for different tasks: literature review, research project development and progress reports
- Collaborating and communicating with people in different fields (i.e. computer vision and medical imaging)
- Conveying my ideas clearly through slides presentation
- English listening, speaking and writing skills

C Please identify any subject-specific or personal and professional skills in which you (and your supervisor(s)) foresee the need for further development or training.

Subject-specific skills

- More advanced MATLAB and Python Programming skills
- Academic writing using LaTeX
- Linux (i.e. Ubuntu) utilization
- Advanced Github techniques
- More advanced theoretical understanding of deep learning and computer vision
- Anatomical and clinical knowledge of the fetal brain

Personal and professional skills

- Communication skills for seeking research collaborations
- Proposal preparation and writing skills for research grants application
- Skills to develop practical applications from research ideas and findings
- Skills to discover unsolved medical problems, especially those in developing countries, that are related to my research and able to be solved by my expertise
- Conveying my ideas and presenting my work clearly to people not working in my field

D Please list any other activities which have contributed to the development of your work. For example, these might include courses attended, conference presentations given, publications, opportunities to undertake teaching etc.

Seminars attended

- Accidental imaging: exploiting corners, craters and other occluders.
- Keep on learning
- Causal Spatiotemporal Representations
- Using Deep Learning to Improve Visual Localization
- Towards verifying neural autonomous systems
- From SLAM to Spatial AI
- Supervised and Unsupervised Techniques for 3D Surface-Based Human Understanding: HoloPose and Lifting AutoEncoders
- Self-supervision, Meta-supervision, Curiosity: Making Computers Study Harder
- CVPR 2020 seminars
- MICCAI 2020 seminars

Workshop attended

- Introduction to TensorFlow 2.0

Courses attended

- (Online) Machine Learning by Andrew Ng

Fetal ultrasound scanning viewing session (John Radcliffe Hospital, under the guidance of Dr Lior Drukker)