Structured Illumination Microscopy Image Processing using Deep Learning

James Hughes Supervised by Dr Edward Ward

Executive Summary

MPhil, Data Intensive Science

Department of Physics & Department of Chemical Engineering and Biotechnology University of Cambridge United Kingdom 28th June 2024

1 Introduction

Importance of the Project - reproducibility - migration of RCAN to PyTorch For comparison, the diameter of a human red blood cell is approximately $8\mu m$ on average.