Our Team

Weimiao YU- Co-Head, Computational Bioimage Analysis (CBA) Unit.

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Dr. Yu obtained his Masters and Ph. D from the National University of Singapore (NUS) majoring in image processing and machine vision. Subsequently, he joined A*STAR as a post-doctoral research fellow in the Imaging Informatics Division of the Bioinformatics Institute (BII). He moved to IMCB as a Research Scientist at the Central Imaging Facility in 2010. Currently, he co-Heads the CBA unit at IMCB. His research topics are computational image analysis and quantitative imaging informatics. Dr. Yu has established close ties with local and international collaborators. In order to enhance biological discovery, his research integrates methodologies from multiple fields, such as image processing, kernel machine learning, and computer vision techniques. In the past few years, he has successfully secured grants for his research. He has developed a number of algorithms/software packages for various biological projects. He also established a number of external collaborations with different industry partners.

Laurent GOLE- Post-Doc, Computational Bioimage Analysis (CBA) Unit.

Dr. Laurent Gole has a Bachelor's degree in Physics and a Master's degree in condensed and soft matter from the University of Lyon in France. He obtained his PhD in Biophysics on his study *"Migration of Dictyostelium Amoeba: Role of Adhesion and Quorum Sensing"* at the University of Lyon, funded by a Fellowship from the government of France. Dr. Gole was a Research Fellow at the MechanoBiology Institute (MBI) in Singapore, studying the role of membrane tension in cell adhesion. He subsequently joined the Institute of Medical Biology (IMB) and developed software dedicated to 3D segmentation of SPIM images. Since 2015, Dr.

Gole has been at IMCB, where he develops algorithm and software packages to analyze and quantify second harmonic generation, multiphoton images and other bio-images with clinical interest.

Kok Haur ONG- Research Officer, Computational Bioimage Analysis (CBA) Unit. Mr Ong Kok Haur received his degree in Computer Aided Geometric Design (B.Sc) and Masters Degree (M.Sc) in medical image analysis from Universiti Sains Malaysia (USM), Malaysia. Currently, he is the Research Officer of the CBA unit at IMCB, A*STAR. Before this, he was a Software Engineer in the Biomedical Imaging Lab at the Singapore Bioimaging Consortium (SBIC), A*STAR, Senior Research Engineer in the School of Computer Science at the USM, Malaysia and Vision Engineer at Pentamaster Corporation Berhad Penang, Malaysia. Mr Ong's research interest covers bio-image processing, computer vision, machine learning, brain image and cellular image quantitative analysis. He has served as a reviewer for numerous prestigious international journals and conferences including Magnetic Resonance Imaging, Neuroradiology, Artificial Intelligence in Medicine (AIIM), 12th Pacific Rim International Conference on Artificial Intelligence. He is familiar with different medical image analysis tools for bio-image quantitative analysis, including Matlab, Statistical Parametric Mapping(SPM), ITK (Insight Toolkit), VTK (Visualization Toolkit), MIPAV (Medical Image Processing, Analysis, and Visualization), Weka (machine learning) and ImageJ/Fiji.