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| Cardiovascular Biomechanics and Ultrasound Laboratory | logo_full_colour |
| National University of Singapore, Dept. of biomedical engineering  Imperial College London, Department of bioengineering |

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| |  | | --- | | Menu | | [Lab Home](file:///C:\Users\choon\Documents\GitHub\yaplab.github.io\LabHome.htm) | | [People](file:///C:\Users\choon\Documents\GitHub\yaplab.github.io\People.htm) | | [Research Projects](file:///C:\Users\choon\Documents\GitHub\yaplab.github.io\Research.htm) | | [Publications](file:///C:\Users\choon\Documents\GitHub\yaplab.github.io\Publications.htm) | | [Position Vacancy](file:///C:\Users\choon\Documents\GitHub\yaplab.github.io\Vacancy.htm) | |  | | **Principal Investigator** | | | |
|  | | | |
|  | **Name:**  Yap Choon Hwai, Ph.D.  **Qualifications:** | | |
| 2006-2011 | Ph.D. | Bioengineering  (Georgia Institute of Technology) |
| 2000-2001 | M.S. | Civil Engineering  (California Institute of Technology) |
| 1997-2000 | B.S. | Civil Engineering  (Cornell University) |
| **Selected Awards:**   1. The Chih Foundation Award, 2011, Georgia Institute of Technology. 2. Yamaguchi Medal, 2015 Asia-Pacific Biomechanics Conference, Sapporo, Japan 3. 2015 National University of Singapore Young Investigator Award   **Appointment:**  Senior Lecturer, Dept of Bioengineering, Imperial College London  Email: [c.yap@imperial.ac.uk](mailto:c.yap@imperial.ac.uk) | | |
|  | **Lab Members** | | | |
|  |  | | | |
|  | photo2 | **Chan Wei Xuan**  Post-doctoral Research Fellow  Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2016 | Ph.D. | Mechanical Engineering  (Nanyang Technological University) | | 2011 | B.Eng. | Aerospace Engineering  (Nanyang Technological University) |   **Research Interests:**   * Computational Fluid Dynamics of biomechanical system * Theoretical model of biomechanical system   **Email:** [biecwx@nus.edu.sg](mailto:biecwx@nus.edu.sg) | | |
|  |  | **Ong Chi Wei**  Post-doctoral Research Fellow  Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2018 | Ph.D. | Biomedical Engineering  (National University of Singapore) | | 2013 | M.Sc. | Biomedical Engineering  (University of Malaya) | | 2011 | B.Sc. | Biomedical Engineerring  First Class Honours  (Universiti Tunku Abdul Rahman) |   **Research Interests:**   * Biomechanics of Fetal Heart and Fetal Heart Intervention * Finite Element Modelling of Fetal Hearts   **Email:** [bieocw@nus.edu.sg](mailto:bieocw@nus.edu.sg) | | |
|  |  | **Foo Yoke Yin**  PhD Student,  Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2016 | B.Sc. | Biomedical Engineering  (University of Malaya) |   **Research Interests:**   * Embryonic heart fluid dynamics * Design and characterization of cardiac pump using dielectric elastomer   **Email:** [biefyy@nus.edu.sg](mailto:biefyy@nus.edu.sg) | | |
|  |  | **Sheldon Ho**  Research Fellow  Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2019 | Ph.D. | Biomedical Engineering  (National University of Singapore) | | 2015 | B.Eng. | Biomedical Engineering  (National University of Singapore) |   **Research Interests:**   * Role of Mechanical forces in congenital cardiovascular malformations studies, using Chick Embryos microsurgery and ultrasound imaging * Usage of dielectric elastomer in blood pump * Evaluation of low thrombotic blood pump materials   **Email:** [sheldon.ho@u.nus.edu](mailto:sheldon.ho@u.nus.edu) | | |
|  | Hadi | **Hadi Wiputra**  Research Fellow  Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2019 | Ph.D. | Biomedical Engineering  (National University of Singapore) | | 2015 | B.Eng. | Biomedical Engineering  (National University of Singapore) |   **Research Interests:**   * Fluid Simulation of Fetal Hearts for evaluation and prediction of congenital heart diseases * Image processing * Object tracking under ultrasound   **Email:** [biehw@nus.ede.sg](mailto:biehw@nus.ede.sg) | | |
|  |  | **Ren Mei Feng**  Ph.D. Student, Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2019 | B.Eng | Biomedical Engineering  (National University of Singapore) |   **Research Interests:**   * Human Fetal Heart Biomechanics * Finite Element Modelling of Fetal Heart * Fetal Heart Intervention Biomechanics   **Email:** [meifeng.ren@u.nus.edu](mailto:meifeng.ren@u.nus.edu) | | |
|  | NGUYEN BA LOC | **Nguyen Ba Loc**  Research Engineer, Department of Biomedical Engineering, NUS  **Qualifications:**  B.E (Bioengineering), Nanyang Technological University  **Research Interest:**   * Computational Bio-Physics Simulation * Superhydrophobic Biomedical Materials * Hemo-compatibliity of Materials   **Email:** [bienbl@nus.edu.sg](mailto:bienbl@nus.edu.sg) | | |
|  |  | **Zheng Yu**  PhD Student, Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2017 | B.Eng. | Biomedical Engineering  (Zhejiang University) |   **Research Interests:**   * Finite Element Simulation of Heart Failure * Ultrasound Myocardial Strain Measuremensts * Heart Failure Preserved Ejection Fraction   **Email:** [e0348827@u.nus.edu](mailto:e0348827@u.nus.edu) | | |
|  |  | **Jennifer Marlena**  Graduate Student (M.Eng.),  Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2018 | B.Eng. | Biomedical Engineering  (National University of Singapore) |   **Research Interests:** Anti-Thrombotic Blood Pump via Novel Coating  **Email:** [e0350240@u.nus.edu](mailto:e0350240@u.nus.edu) | | |
|  |  | **Harshaana Ramlal**  Clinical Coordinator,  Department of Biomedical Engineering, NUS  **Qualifications:**   |  |  |  | | --- | --- | --- | | 2017 | B.S. | Life Science  (National University of Singapore) |   **Email:** [biehr@nus.edu.sg](mailto:biehr@nus.edu.sg) | | |
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|  | **Alumni** | | | |
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|  | **Dr. Muhammad Jamil** | **Research Fellow (2014-2016)**  **Current Appointment: Koc University, Turkey** | | |
|  | **Dr. Lai Chang Quan** | **Research Fellow (2014-2015)**  **Current Appointment: Nanyang Technological University** | | |
|  | **Ms. Germaine Tan Xin Yi** | **Research Engineer (2014-2015)**  **Current Appointment: Singhealth** | | |
|  | **Maryam Jahanzad** | **Research Engineer (2015-2016)**  **Current Appointment: PhD Student, Penn State University** | | |
|  | **Gordon Ko Zhen Yu** | **Research Engineer (2016)**  **Current Appointment: Masters Student, NUS** | | |
|  | **Saw Shier Nee** | **Ph.D. Student (2014-2018)**  **Current Appointment: Research Fellow, Bioinformatics Institute, A\*Star, Singapore** | | |
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|  | **Cheng Yih-Chih** | **Masters Student (2018-2019)**  **Current Appointment: Research Engineer, Bioinformatics Institute, A\*Star, Singapore** | | |
|  | **Vivek Vasudevan** | **Research Fellow (2016-2020)**  **Current Appointment: Research Fellow, A\*Star Biotransformation Information Platform** | | |