IVAN LIM CHEN NING

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EDUCATION

Colorado School of Mines, Golden, CO   **PhD, May 2019**

Minor in Computational and Applied Mathematics   **(3.834 / 4.00)**
- Design ways to obtain multicomponent distributed acoustic sensing (DAS) data
- Research in novel imaging methods using multicomponent seismic data

Imperial College London, London, UK   **M.Sc., September 2013**

Major Courses: Seismic Interpretation, Signal Processing, Rock Physics, Inversion   **(Distinction)**
Petrophysics, Petroleum Geology, Advance Seismic Methods, Quantitative Seismic Analysis, etc.

Thesis: 4D dual-datum processing
- Performed and analyzed 4D matching between towed-streamer and ocean bottom nodes data.

Petroleum Geology Field Trip: Wessex Basin, Dorset, UK

Geophysical Field Trip: Pagosa Springs, CO, US (Collaboration with Colorado School of Mines)
- Geophysical acquisition and processing (DC/SP, EM, GPR, GPS, Gravity and Magnetics, Land Seismic)

Project: Wytch Farm Phase 1 Development
- Petrophysics analysis and Depth conversion

Project: Gullfaks 4D Time Lapse
- Performed 4D tests (wavelets and NRMS), AVO modelling, AVO analysis and production history analysis

Multimedia University, Cyberjaya, Malaysia   **B.Eng.(Hons)., May 2012**

Major Courses: Engineering Mathematics, Digital Signal Processing, Control Theory,   **(3.86 / 4.00)**
Instrumentation and Measurement Techniques, Electromagnetic Theory, Electromagnetic Interference, etc.

Senior Project: Design and Construction of an Autonomous Robot (2012)
- Proposed new algorithm for imaging and mapping (3D to 2D) with hardware design and implementation

Multimedia University, Malacca, Malaysia   **Foundation in Engineering, May 2008**

Major Courses: Physics, Applied Mathematics, Chemistry, Statistics, etc.

PROFESSIONAL EXPERIENCE

Chevron, Houston, US - ETC Intern   **June 2018 - August 2018**
- DAS field data processing and analysis.

Colorado School of Mines, Golden, US - Instructor   **January 2018 - April 2017**
- Advance Engineering Mathematics

Colorado School of Mines, Golden, US - Teaching Assistant   **August 2017 - December 2017**
- Introduction to Seismology

Chevron, Houston, US - ETC Intern   **May 2017 - August 2017**
- Surface and borehole DAS field data processing and analysis.

CGG, Crawley, UK - Geophysicist   **November 2013 - September 2015**
- Seismic data processing (North Sea and Barents Sea).

CGG, Crawley, UK - Research Geophysicist Intern   **June 2013 - September 2013**
- Matching between Ocean-bottom nodes and towed-streamer seismic data.
- 4D noise suppression using wavefield separated data (Patent - *WO2015028485A3).*

Precision Control Sdn Bhd, Shah Alam, Malaysia - Trainee Engineer   **May 2011 - August 2011**
- Assisted in a team project to design Control Systems.
- Worked independently in product routine test, troubleshooting and verification.

TECHNICAL SKILLS

- Matlab, GLOBE Claritas, SeisSpace ProMAX, Rokdoc, Hampson-Russel, CGG in-house software, Madagascar

Programming experience: High-Performance Computing (HPC) using MPI and OpenMP, C, C++, Java and Python.

Proficient in writing and speaking English and Bahasa Malaysia. Proficient in speaking Cantonese and Mandarin.

AWARDS

Chevron International Fellow for the College of Earth Resource Science and Engineering (CERSE), 2017 - 2018

Best Student Poster Paper and Top 30 paper at 2016 Society of Exploration Geophysicists Annual Meeting

President Award (Multimedia University), May 2012

Full Scholarship by Malaysia National Telecommunication, May 2008 - May 2012

PUBLICATIONS

Lim Chen Ning, I and Sava, P.C., [2018] Multicomponent imaging with distributed acoustic sensing, Proceedings of the 88th Annual International Meeting, Society of Exploration Geophysicists.

Lim Chen Ning, I and Sava, P.C., [2018] High-resolution multicomponent distributed acoustic sensing. Geophysical Prospecting, 66(6), P1111-P1122. https://doi.org/10.1111/1365-2478.12634

Lim Chen Ning, I and Sava, P.C., [2018] Multicomponent distributed acoustic sensing: Concept and theory, Geophysics, 83(2), P1-P8. https://doi.org/10.1190/geo2017-0327.1

Lim Chen Ning, I and Sava, P.C., [2017] High-resolution multicomponent distributed acoustic sensing, Proceedings of the 87th Annual International Meeting, Society of Exploration Geophysicists.

Lim Chen Ning, I and Sava, P.C., [2016] Multicomponent distributed acoustic sensing, Proceedings of the 86th Annual International Meeting, Society of Exploration Geophysicists.

R.R. Haacke, **I.C.N. Lim** and K. Davies, [2015] Multi-realisation 4D Noise Attenuation, Proceedings of the *77th Annual International Meeting*, European Association of Geoscientists and Engineers.

Extracurricular Activities

Innovate Malaysia Design Competition, 2012
- Awarded as the 1st runner up for the competition.

Malaysia National Robotics Competition, 2011 - 2012
- Leader for the university's team in 2012 and successfully led the team to finish in top 16.
- Motivated the 2012 team to deliver under short period of time.
- Supervised and guided the 2012 team in technical aspects and developed an enhanced version of main controller boards.
- Team member for the university's team in 2011 and work in a team responsible for the automatic robot's task.
- Participated and contributed to team strategy discussion for the competition.

Cross Cultural Integration Programme, *Secretary, 2009 - 2010*
- Event awarded the best cultural event for year 2010
- Introduced a faster and better way for out-going official letters by imposing a standardized standard.
- Chaired divisions' meetings to coordinate and ensure all the division keep up with the time plan.
- Tackled internal disputes among committees.

Malaysian Red Crescent (MRC), *Chairman of International Humanitarian Law, 2009 - 2010*
- Lead a team in organizing various courses including first aid course for members.
- Participated in a 3 days rescue operation and welfare support for Bukit Antarabangsa Landslide (2008) and worked in shifts.
- Program Director of MMU Disaster Relief and Rescue Operation Camp 2009 responsible to coordinate the entire program flow among committees throughout the 3 days camp.
- Director of Multimedia University H1N1 awareness campaign. This campaign becomes the pioneer campaign for the successive campaign held by the university.