



# MOHD ASRAFF ASMADI

GEOSPATIALIST

## EDUCATION

### Ph.D. (REMOTE SENSING)

Universiti Teknologi Malaysia (UTM) - Current

Geospatial Approach in Development of Landslide Vulnerability and Risk Assessment Models for Critical Infrastructure in Malaysia

### M.Phil. (REMOTE SENSING)

Universiti Teknologi Malaysia (UTM) - 2018

Landslide Susceptibility Mapping using Remotely Sensed Data in Kundasang, Sabah

### B.Sc. (GEOINFORMATICS)

Universiti Teknologi Malaysia (UTM) - 2015

Estimation of Forest Chemical Energy Content in Tropical Rainforest Area using Airborne LiDAR

### MATRICULATION PROGRAMME

Johor Matriculation College – 2010/2011

Major : Physics

## CONTACT

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## WORKING EXPERIENCE

### GEOMAPPING TECHNOLOGY SDN BHD | MAY 2019 – CURRENT

Geospatialist

#### SCIENTIFIC EXPEDITION (AUGUST 2019)

Collaborated with UTM in conducting Terrestrial Laser Scanning (TLS) and Rapid Static GPS survey at UNESCO World Heritage Site (Mount Kinabalu) in the eastern plateau of mountain due to 2015 Sabah Earthquake and Debris Flow

#### PROJECT (JULY 2018 - AUGUST 2019)

Collaborated with local universities in developing "Guidelines for Landslide Vulnerability Index and Risk Analysis for Critical Infrastructure (CI) in Malaysia" for CREAM-CIDB

#### CAPACITY BUILDING & PROFESSIONAL TRAINING (JULY 2019)

Conducted "GIS-Based Disaster Risk Reduction and Resilience" training for Tenaga Nasional Berhad (TNB) personnel

### GEOLATITUDE TECHNOLOGY SDN BHD | JAN 2019 – MAR 2019

Freelance Geospatialist

#### PROJECT

Conducted quality assessment and quality checking of PLUS GIS Inventory Data along Peninsular Malaysia Highway for PLUS Berhad

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | JAN 2016 – NOV 2016

Graduate Research Assistant (GRA) - Geospatialist

#### NATIONAL PROJECT (RESEARCH CONTRACT)

Involved in Slope Hazard and Risk (PBRC) of Kundasang and Kota Kinabalu using high density airborne LiDAR for Department of Mineral and Geoscience Malaysia (JMG)

### GENTING HIGHLAND PLANTATIONS BERHAD | MAR 2016 – OCT 2016

Freelance Geospatialist

#### PROJECT

Conducted quality assessment and quality checking of oil palm trees counting using high spatial resolution satellite imagery and Google Earth Pro images

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | OCT 2015 – NOV 2015

Graduate Research Assistant (GRA) - Geospatialist

#### PROJECT

Involved in the production of Geological-, Geomorphological-, Hydro-Topographical- and Anthropogenic- Landslide Causal Maps for Hazard and Risk Analysis Research

### UTM GNSS & GEODYNAMICS RESEARCH GROUP | JULY 2014 – SEP 2014

Intern

#### PROJECT

Developed integrated GIS database of Kulai District Permanent Lamp Post Inventory for Kulai Municipal Council (MPKu)

## AWARDS & ACHIEVEMENTS

### KUNDASANG, SABAH | FEB 2019

Climbed Low's Peak, The Summit of Mount Kinabalu (4095.2m)

### FACULTY OF GEOINFORMATION AND REAL ESTATE, UTM | MAY 2015

Awarded Best Student in Academic for Geoinformatics

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | 2014 - 2015

Dean's List

### POLITEKNIK SULTAN HAJI AHMAD SHAH | DEC 2014

Won 1<sup>st</sup> Place for Creative Map category in National Geomatics/Geoinformatics Students Innovations Competition (NGGSIC) 2014 - National Competition

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | NOV 2014

Won 1<sup>st</sup> Place for Creative Map category in National Geomatics/Geoinformatics Students Innovations Competition (NGGSIC) 2014 – Local Competition

## LANGUAGE

### MALAY

Excellent in written and spoken

### ENGLISH

Good in written and spoken

## ADDITIONAL ACTIVITIES

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | FEB 2019 – MAR 2019

Committee Member

#### EVENT

Science and Technology for Disaster Risk Reduction (STDRR 2019) Week at Kundasang, Sabah

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | NOV 2018

Speaker & Committee Member

#### WORKSHOP

GIS Workshop 2018 at Faculty of Built Environment and Surveying, UTM

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | SEP 2018

Committee Member

#### WORKSHOP

"Kursus Pendek Pengenalan Kepada Geospasial" for Majlis Bandaraya Johor Bahru

### DPPC & MJIIT UTM KUALA LUMPUR | JAN 2018

Participant

#### PROFESSIONAL TRAINING COURSE

MMJD1133 Control Measures and Mitigation Planning

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | AUG 2017

Presenter

#### COMPETITION

Three Minute Thesis (3MT) Malay Language 2017

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | OCT 2016

Committee Member

#### EVENT

UTM Disaster Risk Reduction Day (UTM-DRR) 2016 at Rantau Panjang, Jajahan Pasir Mas, Kelantan

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | JUL 2016

Committee Member

#### EVENT

Round table discussion under Research and Development (R&D) category For Review of National Slope Master Plan (RNSMP)

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | FEB 2016

Participant

#### WORKSHOP

Landslide Hazard and Risk at Universiti Teknologi Malaysia (UTM) Kuala Lumpur

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | NOV 2015

Graduate Research Assistant (GRA)

#### EVENT

UTM Scientific Expedition Disaster Awareness Day 2015 at Kundasang, Sabah

### UNIVERSITI TEKNOLOGI MALAYSIA (UTM) | SEP 2015

Committee Member

#### EVENT

Kampungku Short Video Competition 2015 at UTM Kuala Lumpur

## CONFERENCE

### KUALA LUMPUR | SEP 2018

International Conference On  
Geomatics and Geospatial (GGT),  
Park Royal Hotel

### KUALA LUMPUR | SEP 2016

4TH AUN/SEED-NET Regional  
Conference On Natural Disaster,  
Seri Pacific Hotel

### UTM JOHOR BAHRU | AUG 2016

RRPG 7<sup>th</sup> International Conference and Field  
Study in Malaysia,  
Faculty of Built Environment

### KOTA KINABALU, SABAH | DEC 2015

Seminar Bencana Alam,  
Grand Borneo Hotel

## CONFERENCE PROCEEDINGS

Mohd Salleh, M. R., Ishak, N. I., Razak, K. A., Abd Rahman, M. Z., **Asmadi, M. A.**, Ismail, Z., and Abdul Khanan, M. F.: GEOSPATIAL APPROACH FOR LANDSLIDE ACTIVITY ASSESSMENT AND MAPPING BASED ON VEGETATION ANOMALIES, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLII-4/W9, 201-215, <https://doi.org/10.5194/isprs-archives-XLII-4-W9-201-2018>, 2018

Hasan, R. C., Rosle, Q. A., **Asmadi, M. A.**, and Mohd Kamal, N. A.: EXTRACTION OF ELEMENT AT RISK FOR LANDSLIDES USING REMOTE SENSING METHOD, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLII-4/W9, 181-188, <https://doi.org/10.5194/isprs-archives-XLII-4-W9-181-2018>, 2018

**Asmadi, M.A.**, Razak, K. A., Abd Rahman, M.Z., Ishak, N.I., (2016). Assessing Landslide Spatial Probability in A Scarcely Data Region. In: 4th AUN/SEED-Net Regional Conference On Natural Disaster, 06-07 September 2016, Kuala Lumpur

Ishak, N.I., Razak, K. A., Abd Rahman, M.Z., Latif, Z.A., **Asmadi, M.A.**, (2016). A Bioindicator Assessment for Understanding Geological Hazard in a Tectonically Active Region. In: 4th AUN/SEED-Net Regional Conference On Natural Disaster, 06-07 September 2016, Kuala Lumpur

**Asmadi, M.A.**, Ishak, N.I., Razak, K. A., Abd Rahman, M.Z., (2016). An Improved Method for Characterizing Element-At-Risk for Landslides in Scarcely Data Region. In: RRPG 7th International Conference and Field Study in Malaysia, 15-16 August 2016, Johor Bahru, Johor

Ishak, N.I., **Asmadi, M.A.**, Razak, K. A., Abd Rahman, M.Z., (2016). LIDAR-Derived Vegetation Anomalies Induced by Geological Hazards for Activity Analysis. In: RRPG 7th International Conference and Field Study in Malaysia, 15-16 August 2016, Johor Bahru, Johor

**Asmadi, M.A.**, Ishak, N.I., Abd Rahman, M.Z., Razak, K. A., (2015). Mapping and Characterization of Complex Landslides: Multi-Scale LiDAR Approach. In: Proceeding of the Natural Disaster Seminar 2015, 01-02 December 2015, Kota Kinabalu, Sabah

Ishak, N.I., **Asmadi, M.A.**, Abd Rahman, M.Z., Razak, K. A., (2015). Extracting Vegetation Anomalies Induced by Landslide. In: Proceeding of the Natural Disaster Seminar 2015, 01-02 December 2015, Kota Kinabalu, Sabah

## REFERENCES

**Sr. Dr. Muhammad Zulkarnain Abd Rahman**

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