





PROF. DATO' DR. NARIMAH BINTI SAMAT

Geography Section
School of Humanities

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BIOGRAPHY

Narimah Samat is a professor of Geographic Information Systems at the School of Humanities, Universiti Sains Malaysia, Penang, Malaysia. She obtained her BSc (GIS/Mathematics) from Southwest Texas State University, U.S.A, Master of Arts in GIS and urban modelling from Universiti Sains Malaysia, and PhD in GIS and urban spatial modelling from University of Leeds, United Kingdom. Her work focuses specifically on the application of GIS in urban land use planning and GIS in social issues analysis. Her research project includes modeling urban spatial growth and addressing spatial inequalities in term of access to health care and higher education and poverty mapping. She was the dean for School of Humanities between 2016 to 2021. She was appointed as the Deputy Vice Chancellor (Academic and International) Universiti Sains Malaysia from April 2021 to April 2024. She was the president of **ASEAN European Academic University Network (ASEA-UNINET)** is a network of universities, consisting of European and South-East Asian universities with the goal of promoting the continuous internationalization of education and research from 2022 - 2024. At present, she is the Editor-in-Chief, Journal of Asian Geography.

AREAS OF EXPERTISE

- GEOGRAPHIC INFORMATION SYSTEMS
- URBAN LAND USE MODELING
- GIS AND SOCIO-ECONOMIC ANALYSIS

ACADEMIC QUALIFICATION

- **PHD (UM) (2002), (GIS/URBAN MODELING)**
University of Leeds
- **MA (UM) (1995), (GIS/Remote Sensing)**
Universiti Sains Malaysia (USM)
- **BSc. (HONS) (SWTexas) (1990), (Cartography/Mathematics)**
Southwest Texas State University (SWTexas)

ADMINISTRATIVE DUTIES

- **DEPUTY VICE CHANCELLOR (ACADEMIC & INTERNATIONAL)**
05 April 2021 – 4 April 2024 (Universiti Sains Malaysia)
- **ACTING DEPUTY VICE CHANCELLOR (RESEARCH & INNOVATIONS)**
03 January 2023 – 15 May 2023 (Universiti Sains Malaysia)
- **ACTING VICE CHANCELLOR**
03 October 2023 – 2 January 2023 (Universiti Sains Malaysia)
- **DEAN**
1 Jan 2016 – 4 April 2021 (School of Humanities)
- **DEPUTY DEAN (RESEARCH)**
1 Jan 2013 – 31 Dec 2015 (School of Humanities)

MEMBERSHIPS

- **PRESIDENT, ASEA-UNINET**
2023 to 2024 (International)
- **EDITOR-IN-CHIEF, JOURNAL OF ASIAN GEOGRAPHY**
2022 – present (International)
- **PROFESSIONAL MEMBER, INSTITUTION FOR GEOSPATIAL AND REMOTE SENSING MALAYSIA**
2015 – present (International)
- **MEMBER, INTERNATIONAL SOCIETY FOR PHOTOGRAMMATRY AND REMOTE SENSING**
2015 – present (National)
- **LIFE MEMBER, SOCIAL SCIENCES SOCIETY MALAYSIA**
2010 – present (National)
- **LIFE MEMBER, PERTUBUHAN PEMBANGUNAN PENYELIDIK DASAR PENGAJIAN TINGGI**
2016 – present (International)
- **LIFE MEMBER, WATER WATCH PENANG**
2016 – present (National)
- **LIFE MEMBER, GLOBAL HIGHER EDUCATION NETWORK**
2016 – present (National)

AWARDS AND STEWARDSHIP

- **ADJUNT PROFESSOR**
Institute Teknologi Bandung, Indonesia (International), 2023-2024.
- **EXCELLENCE SERVICE AWARD**
University Sains Malaysia, 2006, 2010, 2014 (University)
- **VISITING RESEARCH FELLOW**
Faculty Arts and Social Sciences, Universiti Brunei Darussalam, Jan 2014-June 2014
- **COMMONWEATH SCHOLARSHIP AND FELLOWSHIP PLAN**
Association of Commonwealth Universities, 2019-2002.

Article in Journal

WoS (Latest)

- Narimah Binti Samat, See Kok Fong, Tan Mou Leong, Muhammad Azizan Bin Sabjan, Lee Lai Kuan, Rabiatal Adawiyah Binti Ibrahim, Chan Ngai Weng, Seow Ta Wee, Goh Kim Huat, (2023). A metaanalysis of aquaculture technical efficiency studies, *Reviews In Aquaculture*.
- TEW YI LIN* , TAN MOU LEONG* , KWOK PAN CHUN , **NARIMAH BINTI SAMAT** , MOHD AMIRUL BIN MAHAMUD, 2022, Analysis of the Tew, Y.L.,
Tan, M.L., Samat, N.* , Chan, N.W., Mahamud, M.A., Sabjan, M.A., Lee, L.K., See, K.F., and Seow, T.W. (2022). Comparison of Three Water Indices for Tropical Aquaculture Ponds Extraction using Google Earth Engine. *Sains Malaysiana*, 51/2, 369-378.
- Tew, Y.L., Tan, M.L.* , Kwok, P.C., Samat, N., and Mahamud, M.A. (2022). Analysis of the Relationship between Climate Change and Land Use Change using the ESA CCI Land Cover Maps in Sungai Kelantan Basin, Malaysia. *Sains Malaysiana*, 51/2, 437-449.
- Bandira, P.A., Tan, M.L.* , The, S.Y., Samat, N., Shaharudin, S.M., Mahamud, M.A., Tangang, F., Liew, J., Chung, J.X., and Samsudin, M.S. (2022). Optimal Solar Farm Site Selection in the George Town Conurbation Using GIS-Based Multi-Criteria Decision Making (MCDM) and NASA POWER Data. *Atmosphere*, 13, 2105.
- Samat, N.* , Mahamud, M.A., Tan, M.L., Maghsoodi Tilaki, M.J., and Tew, Y.L. (2020). Modelling Land Cover Changes in Peri-urban Areas: A Case Study of George Town Conurbation, Malaysia. *Land*, 9(10), 373.
- Bandira, P.A., Mahamud, M.A., Samat, N.* , Tan, M.L., and Weng, C.N. (2021). GIS-Based Multi-Criteria Evaluation for Potential Inland Aquaculture Site Selection in the George Town Conurbation, Malaysia. *Land*, 10, 1174.
- Tan, M.L.* , Tew, Y.L., Chun, K.P., Samat, N., Shaharudin, S.M., Mahamud, M.A., and Tangang, F. (2021). Improvement of the ESA CCI Land cover maps for water balance analysis in tropical regions: A case study in the Muda River Basin, Malaysia. *Journal of Hydrology: Regional Studies*. 36, 100837.
- Zhang, D., Tan, M.L.* , Dawood, S.R.S., Samat, N., Chang, C.K., Roy, R., Tew, Y.L., and Mahamud, M.A. (2020). Comparison of NCEP-CFSR and CMADS for Hydrological Modelling Using SWAT in the Muda River Basin, Malaysia. *Water*, 12(11), 3288.

Scopus (Latest)

- Elhadary Y., Samat N., (2023). Addressing Gender Disparity in Public Universities of Malaysia: Challenges and Achievements, *Journal of Higher Education Theory And Practice*, 23 (14),
- Siti Masayu Rosliah Binti Abdul Rashid, Narimah Binti Samat, (2023). PENELITIAN TERHADAP PERANAN MIKRO CREDIT DALAM MEMBASMI KEMISKINAN: KAJIAN KES KE ATAS PEMINJAM MIKRO KREDIT FORMAL DAN TIDAK FORMAL DI PULAU PINANG, *Kajian Malaysia*, 41 (2), 221 – 245.
- Alsallal, Suheir, Al-Bakri, Jawad T., Li, Longhui, Tan, Mou Leong, Samat, Narimah, (2023). Evaluation of CHIRPS and CFSR precipitation products over the Mujib Basin, Jordan, *Geografia-malaysian Journal of Society & Space*, 19 (2),
- Yakudima I.I., Samat N., Adamu Y.M., Abdulkarim I.A., Muhammed M.U., Kura S.I., Abdulkadir M., (2023). Detecting Hotspots Clusters of Malaria Prevalence Among Pregnant Women in Jigawa State, North-West, Nigeria, *African Journal Of Biomedical Research*, 26 (2).

- Bandira P.n.a., Tan Mou Leong, Teh S.y., Shaharudin S.M., Narimah Binti Samat, Mohd Amirul Bin Mahamud, (2023). Assessment of NASA POWER for Climate Change Analysis using the de Martonne Climate Index in Northern Peninsular Malaysia, 1238 (1),
- Ismail N.A., Daud L., Mohd S., Samat N., Ridzuan A.R., (2023). Consumption Pattern Determinants of Low-income Household: Evidence from Malaysia, *Jurnal Ekonomi Malaysia*, 57 (3).
- Rosli H., Samat N., Abu Bakar M.A., (2023). The Sustainability of Transport Mode Choice among B40Groups in Urban Areas: A Case Study of Penang Island, Malaysia, *Planning Malaysia* 73 (1).

Others

Books

- Narimah Samat (2019) *Pembangunan Tanpa Sempadan di Malaysia: Persoalan Kelestarian, Transformasi Kawasan*, Pulau Pinang: Penerbit Universiti Sains Malaysia.
- Goh Sang Seong, **Narimah Binti Samat** (Editors), 2021, *Kecaknaan Ilmu Kemanusiaan dalam Pelestarian Alam dan Manusia*, ITBM (Institut Terjemahan & Buku Malaysia) , (Edited Book -National)
- Suriati Ghazali, **Narimah Samat** & Sharifah Rohayah Syeikh Dawood (Editors) (2016) *Cluster Development in Selected Asian Countries: Local and Regional Contexts*, Pulau Pinang: Penerbit
- **Narimah Samat** and Tarmiji Masron (2008) *Sistem Maklumat Geografi dalam Analisis Guna Tanah (Geographic Information Systems in Land Use Analysis)*, Penang: Universiti Sains Malaysia.

Chapter in Books

- SAIDATULAKMAL MOHD, NARIMAH SAMAT & FAISAL RAFIQ MAHAMAD ADIKAN, 2022, The Internationalisation of Higher Education for Sustainable Development, in (Strengthening Malaysian Higher Education: A Contemporary Discourse), Shah Alam: UITM Press, 65-84.
- CHAN NGAI WENG*, AMINUDDIN BIN AB GHANI , NARIMAH BINTI SAMAT , TAN MOU LEONG, 2021, Addressing Water Resources Shortfalls Due to Climate Change in Penang, Malaysia, in (Water Security in Asia - Opportunities and Challenges in the Context of Climate Change), Springer , 239 – 249.
- HAFIZAH ROSLI* , NARIMAH BINTI SAMAT , RADIEAH BINTI MOHD NOR, 2020, Universities as Living Labs for Sustainable Development, in (Integrating Sustainability within University Sustainability Programme Students Perception on Sustainable Cities and Communities Masters Programme of the School of Humanities, USM), Springer , 497-514.
- Chan, N.W.* , AMINUDDIN BIN AB GHANI , NARIMAH BINTI SAMAT , NIK NORMA BINTI NIK HASAN , Mouleong Tan, 2020, Lecture Notes in Civil Engineering Volume 53, 2020, Pages 1151-1162, in (Integrating Structural and Non-structural Flood Management Measures for Greater Effectiveness in Flood Loss Reduction in the Kelantan River Basin, Malaysia), Springer , 1151-1162
- Narimah Samat, Salasiah Che Lah, Hasuria Che Omar, Aizat Hisham Ahmad & Puteri Nurul Atiqah Bandira (2019) Internationalization at Home by Design, Universiti Sains Malaysia Style, In: Rafaela Caballero Andaluz, *Internationalization of Higher Education in Southeast Asia: A Perspective from the Marco Polo Project*, Seville: Universidad De Sevilla, 45-55.
- N.W.CHAN* , N.SAMAT , S.GHAZALI , R.YUSOFF , WAI LENG PHANG, 2019, Chapter 4: Water Budget of a Household, in (Sustainable Urban Development Program - Makassar 2019.), Water Watch Penang, Global Cooperation Institute for Sustainable Cities, Yokohama City University, Japan and Universiti Sains Malaysia, 36-4

- NARIMAH SAMAT, SURIATI GHAZALI, SHARIFAH ROHAYAH SYEIKH DAWOOD AND KHOO SUET LENG, 2016, Spatial Clustering of SMEs in Penang, Cluster Development in Selected Asian Countries: Local and Regional Contexts), Penerbit USM (Universiti Sains Malaysia). pp97- 112.
- N.W.CHAN* , N.SAMAT , S.GHAZALI , R.YUSOF , WAI LENG PHANG, 2018, CHAPTER 6 WATER BUDGET OF A HOUSEHOLD, in (SUSTAINABLE URBAN DEVELOPMENT TEXTBOOK), YOKOHAMA CITY UNIVERSITY, 35-42
- SHARIFAH ROHAYAH BINTI SHEIKH DAWOOD* , NARIMAH BINTI SAMAT , SURIATI BINTI GHAZALI, 2016, Institutional Thickness and SMEs Support Mechanism: How Far are They Benefiting from the Clustering Dynamics?, in (Cluster Development in Selected Asian Countries: Local and Regional Contexts), Penerbit USM (Universiti Sains Malaysia). Pp77-96

Article in Proceeding

- Mohd Azmeer Bin Abu Bakar, Hafizah Rosli, Narimah Binti Samat, (2023). The Sustainability of Transport Mode Choice among B40 Groups in Urban Areas: A Case Study of Penang Island, Malaysia, , 1 - 8. 10.1051/bioconf/20237305019

RESEARCH PROJECT

International

- **Narimah Samat (Project Leader)**, Md Azlin Said, Tan MouLeong, Mohd Amirul Mahamud & Mohd Azmeer Abu Bakar, Geomatics for Disaster Risk Reduction Recovery, Erasmus+ KA2 Grant, 15 Nov 2020 – 14 Nov 2023, RM450,000.00.
- Tan Mou Leong, **Narimah Samat**, Ruslan Rainis, Chan Ngai Weng & Wan Ruslan Ismail, Impact of Percipitation from Extreme Storm – Malaysia (IMPRESS-Malaysia) Skim Geran Padanan Antarabangsa (NEWTON-NERC), RM250,000.00.
- **Narimah Binti Samat**, Leelany Binti Ayob, Sharifah Rohayah Binti Sheikh Dawood, Norsa'Adah Binti Bachok, Collaborative Digital Innovation for Growth and Inclusiveness, Scottish Funding Council, Scotland, Led by University of Glasgow. 1/10/2017-30/03/2018.
- Salasiah Binti Che Lah, Ahmad Shukri Bin Mustapa Kamal, Hasuria Binti Che Omar, **Narimah Binti Samat**, ERASMUS+ CAPACITY BUILDING IN HIGHER EDUCATION MARCO POLO ,ERASMUS+ , RM220,576.08, 15/10/2016- 14/04/2020,

National

- **Narimah Samat (Project Leader)**, Chan Ngai Weng, Tan Mou Leong, See Kok Fong & Seow Ta We, Study of Social, Culture and Economic Aspects of Sustainable Aquaculture Focusing on Reclamation and Reuse of Aquaculture Effluent, Long-term Research Grant Scheme, Ministry of Higher Education Malaysia. 1/1/2019 – 31/9/2024.
- **Narimah Binti Samat (Project Leader)**, Chan Ngai Weng, Mohammad Javad Maghsoodi Tilaki, Mohd Amirul Bin Mahamud, Tan Mou Leong, ACCESS - Equitable Accessibility Framework for Transport and Landuse Planning in Pulau Pinang,KEMENTERIAN PENGAJIAN TINGGI , RM119,485.00, 01/09/2022-31/08/2025.
- **Narimah Binti Samat (Project Leader)**, Anisah Lee Binti Abdullah, Asyirah Binti Abdul Rahim, Khoo Suet Leng, Norzailawati Mohd Nor, Shankar A/I Karuppayah, Tan Mou Leong, FutureSIM - Development of an Integrated Spatial Temporal Model of Urban Development and Climate Change on Water Resources, RM79,200.00, 01/01/2019-31/12/2020. Fundamental Research Grant Scheme, Ministry of Higher Education Malaysia.

- **Narimah Binti Samat (Project Leader)**, DR. JOSE EDGARDO L. ABAN , Morshidi Bin Sirat, PROF. NORZAILAWATI HJ. MOHD NOOR , Suriati Binti Ghazali, Wan Mohd Muhiyuddin Bin Wan Ibrahim, Zuliyadini Bin A Rahaman, Modelling Urban Growth Boundary and Its Impact on the Community and Environment ,KEMENTERIAN PENGAJIAN TINGGI , RM140,000.00, 12/01/2015-11/07/2018.

CONSULTANCY PROJECT

- **PwC Malaysia**

22 Nov 2021 - 16 May 2022 (National) To Conduct a Review on Impact of Covid-19 on NCER's Key Sectors & Stakeholders and Propose Mitigation Strategies, Projects & Programmes, Implementation Plan, PricewaterhouseCoopers Advisory Services Sdn Bhd, 22/11/2021 - 16/05/2022, (National)

- **Penang State Government**

15 Dec 2021 - 16 Dec 2022 (National) Baseline of Vulnerable Families and Individuals in Penang.

- **SSR CITY SOLUTIONS**

13 Jan 2021 – 12 March 2021 (National) Establishing A connectivity Network of 17 Sustainable Develop goals that will identify, monitor, quantify and report on its progress within the city.

- **Penang Green Council**

1 Feb 2017 – 30 April 2018 (National) Services for stage 1's Stakeholder Consultation for Developing the Penang Green Agenda.

PAPER PRESENTED

Invited Seminar

- Narimah Samat (2020) The Impact of Urban Development of Agriculture Activities at Peri-Urban Areas, Invited Speaker, 25 August 2020. Bangladesh National Geographical Association.
- Narimah Samat (2020) Smart City Initiatives in Malaysia, the 5th PlanoCosmo International Conference, ITB Bandung, Indonesia. Invited Speaker.
- Narimah Samat (2019) Invited Speaker, *Urbanization and Southeast Asia as Emerging Market*, MA (Business in Emerging Market) Program, FH Joanneum University of Applied Sciences, Graz Austria.
- Narimah Samat (2018) Keynote Speaker, Wisdom Power for Sustainable Development, 20-21 August 2018. 1st National Conference on Humanities and Social Sciences, Songkhla Rajabhat University, Thailand,
- Narimah Samat (2018), Invited Speaker, Governance Structure of the University, International Deans' Course Southeast Asia, University of Applied Sciences, Osnabruck, Germany.
- Narimah Samat (2017) Keynote Speaker, Perbandaran di Malaysia: Isu dan Cabaran ke arah Pembangunan Lestari (Urbanization in Malaysia: Issues and Challenges towards Sustainable Development), Seminar Ekspolorasi Geografi Siri 2, 28-29 Nov 2017. Universiti Malaysia Sabah.

Invited Speaker

- 2016, Invited Speaker, Sustainable Land Use Development, , Yokohama City University & Universiti Sains Malaysia, Sustainable Development Programme Course (International)
- 2018, Invited Speaker, Governance Structure of the University (NarimahSamat), Osnabruck Germany, German Academy Exchange Services, International Dean Course Southeast Asia (International)
- 2020, Invited Speaker, Smart City Infrastructure in Malaysia (NarimahSamat), Bandung, Indonesia, Institut Teknologi Bandung, The 5th PlanoCosmo International Conference (International)
- 2020, Invited Speaker, Urban Development and Its Impact on Agricultural Activities, webinar - Bangladesh National Geographical Association, Bangladesh National Geographical Association & Jahngirnagar University, Bangladesh, International Webinar (International)
- 2021, Invited Speaker, GIS & Social Issues Analysis, Webinar - Nigeria, YMA Research Network, Nigeria, Y.M.A Webinar Series (International)
- 2022, Invited Speaker, Partnership and Collaboration in Higher Education, Singapore, National University of Singapore, Temasek Foundation- NUS Programme for Leadership in University Management (TF-NUS PLUM): 10-Year Anniversary Summit (International)
- 2022, Invited Speaker, Data Strategies and the Achievements of High-Impact University Missions, Vientinne, Loas, Asean Universities Network, 13th Rectors Meeting (International)
- 2023. Webinar Siri ke-20, Yayasan Tungku Fauziah, Women in Search for Excellence, 17 April 2023.

Event Organiser

- Chairperson, 19th ASEA-UNINET Plenary Meeting, 26 Feb – 1 March 2024, Asea-Uninet, Austria.

Keynote Speaker

- 2022, Keynote Speaker, Keynote Speaker - 6th Planocosmo Bali 2022, NusaDua Bali, Indonesia, Institute Teknologi Bandung, the 6th Planocosmo Conference (International) .
- 2021, Keynote Speaker, The Role, Importance and Challenges of Social Sciences and Humanities in the Disruptive Society, Online, Thaksin University Thailand, 2nd National and International Conference on Humanities and Social Sciences (TSU-HUSOiCon 2021) (International)
- 2022, Keynote Speaker, Outcome Based Education Curriculum Development – Example from MSc. Geomatic for Disaster Risk Reduction Program, Indonesia, Universiti Negeri Medan, Outcome Based Education Curriculum Development for Postgraduate Study Programs (International)
- 2019, Keynote Speaker, Borderless Development in Malaysia: Issues of Sustainability and Area Transformationsra, Universiti Sains Malaysia, Universiti Sains Malaysia, the 2nd International Conference on Humanities (School)
- 2018, Keynote Speaker, Wisdom Power for Sustainable Development, Songkla Rajabhat University Thailand, Songkla Rajabhat University Thailand, 1st Humanities and Social Sciences National Conference (International)
- 2017, Keynote Speaker, (Narimah) - Perbandaran di Malaysia: Isu dan Cabaran ke arah Pembangunan Lestari, Universiti Malaysia Sabah, Program Geografi, Universiti Malaysia Sabah, Seminar Ekspolorasi Geografi Siri 2 (National)

ACADEMIC/PROF. SERVICES

Evaluation

- request for Recommendation Letter for Promotion of Professor, Professor , 15/07/2021-19/07/2021, Institut Teknologi Bandung, Indonesia
- External Evaluation, Profesor (VK7), Professor , 10/04/2022-10/05/2022, Universiti Utara Malaysia
- External Evaluation, Professor , 27/10/2022-11/12/2022, International Islamic University Malaysia
- External Evaluation, Professor , 09/04/2022-11/12/2022, Universiti Utara Malaysia
- External Evaluation, Professor , 01/11/2022-11/12/2022, Universiti Sultan Zainal Abidin Associate Professor
- External Assessor, Associate Professor , 12/04/2017-11/05/2017, Universiti Utara Malaysia

PhD

- Noranida Mokthsim, 2016, Ph.D Thesis , Universiti Malaya, The Evolution of Environment Management in Malaysia Towards Achieving Sustainable Development Goals (National)
- Amirulikhshan Zolkafli, 2016, Ph.D Thesis , Queensland University of Technology, Usability enhancement of web-based public participation GIS to increase public involvement in sustainable development planning (International)
- Mohammad Abousaeidi, 2016, Ph.D Thesis , Universiti Malaya, Application of Geographic Information System (GIS) Modeling to Determine the Quickest Delivery Routes For Fresh Vegetables (National)
- Nur Aulia bt Rosni, 2017, Ph.D Thesis , International Islamic University Malaysia, Developing Land Use Geospatial Indices (LUGI) in Measuring Urban Sprawl using Remote Sensing and GIS Applications: Case Study of Kuala Lumpur (National)
- Izatul binti Yussof, 2018, Ph.D Thesis , Universiti Malaya, (Narimah)-Aplikasi Space Syntax dan Sistem Maklumat Geografi untuk mengenal pasti perhubungan ruangan antara morfologi bandar dan jenayah di Wilayah Persekutuan Putrajaya (National)
- Mohd Norarshad bin Nordin, 2019, Ph.D Thesis , Universiti Malaysia Sarawak, (Narimah) - Analisis Ruangan Penyalahgunaan Dadah dan Jenayah Harta Benda: Kajian Kes Daerah Timur Laut Pulau Pinang (National)
- Bashirah binti Mohd Fazli, 2019, Ph.D Thesis , Universiti Malaya, (Narimah) - Development of Similarity Based Spatial Modeling for Integrated Recreational Lake Water Quality Management (National)
- Tehmina Bibi, 2019, Ph.D Thesis , Universiti Teknologi Malaysia, (Narimah) - Spatio-Temporal Assessment of Landslide Hazard with Airborne Laser Altimetry and Future Prediction using Hybrid Model (National)
- Daniel Hary Prasetyo, 2019, Ph.D Thesis , Universiti Malaya, (Narimah) - A GIS-Based Multi-Criteria Decision Analysis and Public Participatory Approach for Public School Sites Selection in Surabaya (National)
- Syahrul Nellis, 2020, Ph.D Thesis , Universiti Malaya, DYNAMICS OF DENGUE IN KLANG VALLEY (2001-2011): A STUDY INTEGRATING LABORATORY INFORMATION AND APPLYING GEOGRAPHIC INFORMATION SYSTEM (GIS) IN SURVEILLANCE OF DENGUE (National)
- Ricky Anak Kemarau, 2021, Ph.D Thesis , Universiti Malaysia Sabah, Aplikasi Remote Sensing Dalam Mengkaji Kesan El Niño Southern Oscillation (Enso) Terhadap Suhu Di Bandaraya Kuching, Sarawak (National)

- Khalid Ahmed Salim Al Kalbani, 2021, Ph.D Thesis , Universiti Teknologi Malaysia, HIERARCHICAL EVALUATION OF THE DEGREE OF ISSUES AND CHALLENGES FOR ESTABLISHING THREE-DIMENSIONAL SPATIAL DATA INFRASTRUCTURE OF OMAN (National).
- Tengku Amirrul bin Tengku Asmara, 2021, Ph.D Thesis , Universiti Teknologi Malaysia, SOCIAL VULNERABILITY ASSESSMENT FOR FLOOD DISASTER MANAGEMENT IN SEGAMAT, JOHOR (National)
- Wan Muhd Hairi bin Wan Ab Karim, 2021, Ph.D Thesis , Universiti Teknologi Malaysia, MULTI-SCALE DATA INFORMATION EXTRACTION BASED ON SINGLE LAYER MAP VIEWER APPROACH. (National)
- MOHAMMED JAWALUDDEEN SANI, 2022, Ph.D Thesis , Universiti Teknologi Malaysia, INTEGRATION OF BUILDING INFORMATION MODELLING AND GEOGRAPHIC INFORMATION SYSTEM BASED ON CONVERSION ALGORITHMS AT DATA - LEVEL (National)
- Ernawati, 2023, Ph.D Thesis , Universiti Teknikal Melaka, MODIFIED RECENCY, FREQUENCY AND MONETARY VALUE MODEL FOR DETERMINING GEOMARKETING PROMOTIONAL TARGET MARKET IN INDONESIA (National)
- Nuriah binti Abdul Majid, 2016, Ph.D Thesis , Universiti Sains Malaysia, Aplikasi Rangkaian Saraf Buatan (ANN) dalam Permodelan Ruangan Pelbagai Jenis Kegagalan Cerun di Pulau Pinang, Malaysia
- Sohaib K.M Abujayyab, 2017, Ph.D Thesis , Unversiti Sains Malaysia, Pembangunan Model Perlombongan Data Spatial untuk Pemetaan Kesesuaian Tapak Perlepasan Berdasarkan Rangkaian Neural dan Analisis Multivariat
- Abdul Rauf bin Abdul Rasam, 2017, Ph.D Thesis , Unversiti Sains Malaysia, Permodelan dan Analisis Geospasial bagi Kawasan Berpotensi Tinggi Penyakit Tuberkulosis di Shah Alam Selangor
- Nabilah Naharudin, 2018, Ph.D Thesis , Unversiti Sains Malaysia, (USM) - Indeks Walkability Ruangan untuk laluan pejalan kaki ke stesyen- stesyen transit aliran ringan berpandukan proses analisis berjaringan dan sistem maklumat geografi
- Azizul Ahmad, 2018, Ph.D Thesis , Universiti Sains Malaysia, (USM) - Kajian Penerokaan Corak Pergerakan Pelancong di Langkawi Kedah
- Ailis Elizabeth Epa, 2018, Ph.D Thesis , Universiti Sains Malaysia, Permodelan Ruang Kesan Pembangunan Lebuhraya kepada Pertumbuhan dan Taburan Penduduk
- Babalola Sikiru Jimoh, 2019, Ph.D Thesis , Universiti Sains Malaysia, (Narimah) - An Analysis of Patterns and Determinants of Poverty, Employment, and Housing Quality Situations in Communities Housing Public Universities in Ondo State, Nigeria
- Nur Afiqah Ariffin, 2021, Ph.D Thesis , Universiti Sains Malaysia, Korelasi Ruang Masa Penyakit Tuberkulosis di Pulau Pinang

Master

- Ahmad Shawal Mamat, 2017, Master Thesis , Universiti Malaya, Household Electrical and Electronic Waste (E-Waste) Management in Kuala Lumpur and Shah Alam (National)
- Kong Teck Siong, 2019, Master Thesis , Universiti Malaysia Sabah, (Narimah) - Kajian Corak Etnografi Masyarakat Kadazan Dusun di Tambunan Sabah Menggunakan Analisis GIS (National)
- Linalin Anak Kalang, 2019, Master Thesis , Universiti Malaysia Sabah, (Narimah) - Aplikasi GIS dalam Menentukan Corak Pelakuan Jenayah di Kawasan Letakan Sekolah-sekolah dalam Bandar Kota Kinabalu (National)

- Kho Shiau Hong, 2019, Master Thesis , Universiti Malaysia Sabah, (Narimah)-Kajian Ketersampaian Menggunakan GIS ke Pusat Rawatan bagi Pesakit Tuberkulosis di Daerah Mukah Sarawak (National)
- MUHAMMAD THAQIF BIN MUHAMMED NAJMUDDIN, 2020, Master Thesis , Universiti Malaya, ANALYSIS OF BUILT ENVIRONMENT VARIABLES AND PEDESTRIAN CATCHMENT AREA ESTIMATION OF RAIL STATIONS IN PETALING JAYA (National)
- Kho Ing Ing, 2016, Master Thesis , Universiti Sains Malaysia, Ketersampaian Ruangan Penduduk Rumah Panjang kepada Kemudahan Kesihatan Awam di Kapit, Sarawak
- Mohamad Amirul bin Saad, 2016, Master Thesis - Mixed Mode , Universiti Sains Malaysia, Aksesibiliti Ruangan Pengguna Kerusi Roda Orang Kurang Upaya di Kampus Induk Universiti Sains Malaysia, Pulau Pinang
- Norhusna binti Mashudi, 2016, Master Thesis - Mixed Mode , Universiti Sains Malaysia, Penilaian Kualiti Perkhidmatan Transit Aliran Ringan ke Arah Kelestarian Bandaraya Kuala Lumpur
- Siti Noor Zilawati Mingat@Minhad, 2017, Master Thesis - Mixed Mode , Unversiti Sains Malaysia, Pengaruh Persekitaran Fizikal Perumahan Terhadap Kesihatan dan Kesejahteraan Kawasan Kejiranan di Alor Setar Kedah
- Nur Syafiqah Ayu binti Abdul Rani, 2017, Master Thesis - Mixed Mode , Universiti Sains Malaysia, Spatial Analysis of New Car Dealers in Pulau Pinang.
- Muhammad Anas bin Khairul Anuar, 2019, Master Thesis - Mixed Mode , Universiti Sains Malaysia, (Narimah) - Analisis Spatial terhadap Kes Denggi: Kajian Kes Daerah Petaling

Contribution to external organisation

- Member, Board of Studies, PROGRAM SARJANA MUDA GEOGRAFI DAN SARJANA MUDA PENGAJIAN ALAM SEKITAR DI FAKULTI SASTERA DAN SAINS SOSIAL, 12/08/2021-11/08/2022, Universiti Malaya.
- Academic Assessor, Curriculum Review Bachelor of Geography, (Narimah Samat), 27/06/2019-26/07/2019, University of Ruhuna, Sri Lanka.
- Program Assessor, Doktor Falsafah - Earth Sciences (Narimah), 18/04/2019-17/06/2019, Universiti Pendidikan Sultan Idris.
- Academic Assessor, (Narimah)-Geography Program Academic Assessor, 27/11/2017-26/11/2018, Universiti Malaysia Sabah.
- Member, Board of Studies, (Narimah) - Jawatankuasa Pengajian Semakan Semula Program Akademik, 01/02/2018-28/02/2018, Universiti Pendidikan Sultan Idris.

SUPERVISION

Postdoctoral Supervision

- Hafizah Rosli, Jan 2023 – Dec 2023, and March 2024 – March 2025. Urban Mobility and Place of Employment in Penang, postdoctoral fellow. Universiti Sains Malaysia.
- Nasir Nayan, Jan 2023 – May 2023, Trend Suhu Permukaan Bumi dan Guna Tanah Bandar-bandar Besar di Malaysia: Integrasi GIS dan Remote Sensing, Universiti Pendidikan Sultan Idris. Sabbatical attachment.
- Siti Masayu Rosliah Abdul Rashid, Microfinance and Urban Poverty, postdoctoral fellow. Universiti Sains Malaysia.

PhD

- Hafizah Binti Rosli, Graduated 2022, Doctor of Philosophy, Research - Full Time, The Relationship Between Mobility and Housing Among the B40 Group in Penang, Main Supervisor.
- Yakudima Ismaila Ibrahim, Jan 2022 – June 2022 (PhD Research Attachment), Spatial clustering of Malaria Incidences in Nigeria, Bayero University, Kano, Nigeria.
- Abdulkadir Muhammad, Graduated 2021, Doctor of Philosophy, Research - Full Time, Spatio -Temporal Analysis of Maternal Mortality In Jigawa State, Nigeria, Main Supervisor
- Mohd Amirul Bin Mahamud, Graduated 2021, Doctor of Philosophy, Research - Full Time, A Dynamic Agent-Based Model For Simulating And Predicting Urban Growth, Main Supervisor.
- Rosmiyati Binti Hasni, Graduated 2019, Doctor of Philosophy, Research - Full Time, Development of Housing Land Suitability Index: A Case Study in Seberang Perai, Malaysia, Main Supervisor
- Shuaibu Dabo (Ongoing) Geospatial Analysis of Domestic Energy Consumption in Kaduna State, Nigeria.
- Chen Meili (Ongoing) An integrated model chain based on climate and land-use change for predicting future flood risk.
- Tang Haiyuan (Ongoing) Analysing of the Protection and Sustainable Development of Traditional Villages in the Pearl River Delta Region, Guangdong Province, China
- Muhammad Thaqif Bin Muhammed Najmuddin (Ongoing) Accessibility Practices in Transport and Development Planning: A Case Study on Pulau Pinang.
- Ramli Mohd Razak (Ongoing) Impak Langsung dan Tidak Langsung Perubahan Guna Tanah Terhadap Penduduk Setempat.
- Mahmoud Naser Maddallah Almahadin (Ongoing) Queues Theory (Super Frames) and Their Applications Through geographic information systems on Jordanian port of Aqaba

Master

- Jannatul 'Agilah Binti Said, Graduated 2022, Master, Research - Full Time, Consumption of Food Delivery Services among the Population of Pulau Pinang, Main Supervisor
- See Too Kay Leng, Graduated 2021, Master, Research - Full Time, Influence Of Consumer Behavior Towards Aquaculture Products Quality And Industry In Penang, Malaysia, Main Supervisor
- Nurazynie Binti Herman, Graduated 2019, Master, Research - Full Time, Multi Dimensional Poverty: B40 Growing Dissemination in Town Bayan Baru, Penang, Main Supervisor.
- Li WenHao (ongoing). The Application of GIS in Selecting Suitable Site for Electronic Vehicle Charging Stations.

TEACHING

Master

- HGT514/3, Research Methods

Bachelor

- HGT222/4, Techniques In Geography
- HGG454/3 Selected Topics In Geography
- HGT331/3, GIS In Sustainable Development
- HGG355/4 Regional And Local Analysis
- HGT342/4, Research Methodology and Field Work

SOCIAL RESPONSIBILITY ACTIVITIES

- Ahli Jawatankuasa Pelajaran, Majlis Agama Islam Perlis, Negeri Perlis.
- Ahi Jawatankuasa MMK Pendidikan dan Pengajian Tinggi, Negeri Pulau Pinang.