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ACADEMIC QUALIFICATIONS:

- Ph.D. (Geographic Information Systems/Land Use Planning) University of Leeds, United Kingdom. 2002.
Thesis: A Geographic Information System and Cellular Automata Spatial Model of Urban Development for Penang State, Malaysia.
- MA (Geography) Universiti Sains Malaysia, Malaysia. 1995.
Thesis: Geographic Information System and Remote Sensing in Developing Residential Land Use Development Model in Butterworth, Penang State.
- BSc (Geography/Mathematics) Southwest Texas State Univ. Texas, United State of America. 1990.

COURSES TAUGHT

UNDERGRADUATE	POSTGRADUATE
HGT222 – Techniques in Geography	HGG511 – Selected Topics on Sustainable Cities and Communities
HGT321 – Geographic Information Technologies	HGT514 – Research Methods
HGT341 – Geography Research Method and Fieldworks	HGT511 – Geographic Information Sciences
	HGT513 – Research Methods and Database Management
	HGT523 – GIS in Business and Service Planning

AREAS OF EXPERTISE:

- Urban Land Use Modeling
- Geographic Information Systems
- GIS and Socio-economic Applications

WORKING EXPERIENCE

May 2016 – Present:	Professor, Geography Section, School of Humanities, USM
July 2008 – April 2016:	Associate Professor, Geography Section, School of Humanities, USM
Nov 2005 – Jun 2008:	Senior Lecturer, Geography Section, School of Humanities, USM
Oct 1995 – Oct 2005:	Lecturer, Geography Section, School of Humanities, USM
Dec 1991 – Sept 1995:	Teacher, Geography Section, School of Humanities, USM

ADMINISTRATIVE DUTY

1. Jan 2016 – Dec 2018, Dean, School of Humanities, Universiti Sains Malaysia, Penang, Malaysia
2. Jan 2013-Dec 2015, Deputy Dean (Research) School of Humanities, Universiti Sains Malaysia, Penang.
3. 13 Dec 2012 - Chairperson, VivaVoce for MA Thesis, Project Management, School of Housing Building and Planning Universiti Sains Malaysia
4. Acting Chairperson, Geography Section, School of Humanities, Universiti Sains Malaysia (1 Dec 2010 – 31 August 2011).
5. Acting Chairperson, Geography Section, School of Humanities, Universiti Sains Malaysia (9 Nov 2010 – 25 Nov 2010).
6. Coordinator, Team Spatial Social Sciences, in Social Transformation Research Platform, Universiti Sains Malaysia, Sept 2009 – 31 Dec 2012.
7. 4 May 2011 – Chairperson, VivaVoce for MA Thesis, Project Management, School of Housing Building and Planning Universiti Sains Malaysia
8. 28 June 2010 – Chairperson, Viva for MA Thesis, Centre for Archaeological, Universiti Sains Malaysia .
9. 24 June 2009 – Chairperson, Viva for Msc Thesis, Project Management, School of Housing Building and Planning, Universiti Sains Malaysia.
10. Member, Asia Pacific Research Unit, School of Humanities, Universiti Sains Malaysia.
11. Assistant Coordinator, GeoInformatic Research Unit, School of Humanities, Universiti Sains Malaysia.

PROFESSIONAL MEMBERSHIP/ EDITORIAL

- Editor-in-Chief, International Journal of Environment, Society and Space, 2013 – present.
- Editor-in-Chief, American Journal of Geographic Information Systems, 2013-2015.
- Editor, American Journal of Geographic Information System, Academic & Scientific Publishing, 2011-2013.
- Editor, Canadian Social Sciences Journal.
- Member, Asia GIS Association
- Life member, Persatuan Sains Sosial Malaysia (Social Sciences Society Malaysia), since Mac 2010.
- Member, Global Higher Education Network, Since 2016.
- Member, Water Watch Penang, 2009 – 2012.
- Assistant Secretary, National Geographical Association of Malaysia 2003-2005, 2005-2009.
- Life member, National Geographical Association of Malaysia, Since 2008.
- Member, North American Cartographers Association 1989-1990.

RESEARCH PROJECTS:

1. **Narimah Samat (Project Leader)**, *Modeling Urban Growth Boundary and Its Impact on Communities and Environment*, Grant Awarded as **Best Research Project under**

Fundamental Research Grant Scheme 2011 by Ministry of Education Malaysia, RM 140,000.00 (January 2015 – January 2018).

2. **Narimah Samat (Project Leader)** Spatial Inequalities: Framing Phenomena, Formulating Policies, Research University Team (RM500,000), July 2013 – July 2016.
3. **Narimah Samat (Project Leader)**, Modeling and Identifying Sustainable Urban Growth Boundary: A Study on Georgetown Conurbation and Its Impact on Urban and Peri-Urban Ecosystems, Fundamental Research Grant, Minister of Higher Education, Malaysia, RM50,000.00 – 1 July 2011 – 30 June 2013.
4. **Narimah Samat (Project Leader)**, Aishah Knight Abd Shattar, Yen Siew Hwa, Suriati Ghazali, Saidatul Akmal Mohd, Nabiha Abdul Khalid, Wan Mohd Muhiyuddin Wan Ibrahim dan Norsa'adah Bachok. Breast, Cervical and Colorectal Cancers: A Geographical Analysis Of Case Distribution And Their Relationship With Service Facilities. Research University Grant, RM 183,461.02. on-going.
5. Locating Creative Industries In Creative Cities For Local Economic Development: The Case Of Penang State , USM (RU) , RM130,000.00, Khoo Suet Leng, **Narimah Samat (Researcher)**, Sharifah Rohayah Syeikh Dawood, Morshidi Sirat and Nurwati Badarulzaman, 1/12/2011-30/11/2014.
6. Physical Activity and Sustainable Health Nutritional Status, Community Wellbeing and Environmental Enhancement , USM (RU) , RM877,009.00, Wan Abdul Manan Bin Wan Muda and **Narimah Samat (Researcher)**. 1/12/2011-30/11/2014.
7. Human Aspects of Water Security Focusing on Governance, Water Demand Management and Non-Revenue Water Management in Urban Areas in Malaysia , KEMENTERIAN PENGAJIAN TINGGI , RM475,750.00, Chan Ngai Weng, **Narimah Samat (Researcher)**, Suriati Ghazali and Asyirah Abdul Rahim, 1/8/2011-31/8/2014.
8. A Study Of River Management Models In Malaysia , KEMENTERIAN PENGAJIAN TINGGI , RM50,000.00, Chan Ngai Weng and **Narimah Samat (Researcher)**, 1/8/2011-31/7/2013
9. **Narimah Samat (Project Leader)**, Suriati Ghazali and Fatimah Hassan, Land use changes at the peri-urban area and its impact on local community, Research University Grants, RM 96,000. Completed.
10. Alias Abdul Ghani, Salasiah Che Lah and **Narimah Samat (Researcher)**. Documentation and Gis Mapping of Linguistics and Cultural Diversity of Endangered Negrito Sub Group of Orang Asli of Peninsular Malaysia. Research University Grant, RM 99,905.00. Completed
11. Wan Rose Eliza Abdul Rahman, **Narimah Samat (Researcher)** and Anisah Lee Abdullah. Issues and Challenges in Translating Scientific Texts: A Case of Geographic Information Systems and Remote Sensing Texts, Research University Grant RM 99,810.68. Completed.
12. Aishah Knight Abd Shattar, Lely Lubna, **Narimah Samat (Researcher)**., Assessment of a Colorectal Cancer Screening Programme using Faecal Occult Blood Test (FOBT) Kit in Penang State, Malaysia, USM Short Term, RM 37,202.00. On-going.
13. Suriati Ghazali, **Narimah Samat (Researcher)**. Leisure Preferences and Green Space Needs In Urban Communities In Penang Island, Malaysia Research University Grant RM 95,189.43. Completed
14. **Narimah Samat (project leader)** and Anisah Lee Abdullah, Modelling Land Use/Land Cover Changes and its Effect on Biodiversity, 2006-2008. MOSTI E-Science Fund. RM86,999.00. Completed.
15. **Narimah Samat (Project Leader)**, Suriati Ghazali, Tarmiji Masron dan Nik Haslinda Nik Hussain, Analisis Geografi Petempatan Penduduk di Bandar Purba, Lembah Bujang, Kedah. (Geographical Analysis of the Human Settlements in Ancient City of Bujang Valley) 2006-2009, Fundamental Research Grant, RM40,000.00. Completed.

16. **Narimah Samat (Project Leader)**, Suriati Ghazali, Morshidi Sirat and Amiza Mat Amin, Urban Poverty: A Geographical Analysis of the Relationship Between Retail Food Access and Socio-Economic Background and its Policy Implications, 2007 – 2009. MOSTI E-Science Fund. RM84,500.00. Completed.
17. **Narimah Samat (Project Leader)**, Suriati Ghazali, Norizan Hj. Md Nor, Ruslan Rainis and Aziz Abdul Majid, *Aplikasi Sistem Maklumat Geografi dalam Pembentukan Model Guna Tanah Bandar (Application of Geographic Information System in Modelling Urban Development)*, 2004 – 2006. USM Short-Term Grant. Completed.
18. Chan Ngai Weng, Asyirah Abdul Rahim, and **Narimah Samat (Researcher)** A Comparative Evaluation Of The Potentials, Needs And Sustainability Of Taman Negara National Park, Kinabalu National Park And Langkawi Geopark As Ecotourism Sites, USM (RU), RM93,969.12, 15/5/2009-14/5/2011
19. Jabil bin Mapjabil, Azizan Marzuki, and **Narimah Samat (Researcher)** Pembentukan Model Ekopelancongan Bagi Pembangunan Hutan Lipur Lestari di Bahagian Utara Semenanjung Malaysia (Perlis, Kedah dan Pulau Pinang), KEMENTERIAN PENGAJIAN TINGGI, RM56,000.00, 1/5/2010-30/4/2012. Completed
20. Nik Haslinda Nik Hussain, **Narimah Samat (Researcher)**, Jasni Sulong, Nooriah Yusof and Tarmiji Masron, *Penyelesaian Konflik Kerajaan Negeri- Komuniti Marginal: Ke Arah Pembinaan Semula Teori Pembangunan Wilayah yang Mendasari Pembangunan Wilayah di Malaysia*, 2006-2009, Fundamental Research Grant, RM60,000.00. Completed.
21. Anisah Lee Abdullah, **Narimah Samat (Researcher)**, Zulfigar Yassin, Coastal and Marine Resource Inventory for Conservation and Restoration of Damages Habitats in Northern Straits of Malacca, 2007 – 2009. MOSTI E-Science Fund. RM 323,616.00. Completed.
22. Suriati Ghazali, **Narimah Samat (Researcher)**, Azlinda Azman, Intan Hashimah Hashim, Norizan Md Nor dan Khariah Salwa Mokhtar, *Kesengsaraan Berganda- Kemiskinan dan Kanser: Satu Tinjauan dan Cadangan ke Arah Tindakan*. Funded by National Cancer Council Malaysia (MAKNA) and USM, RM100,000.00. completed.
23. Abdul Samad Hadi, Shahrudin Idrus, Abdul Hadi Harman Shah, **Narimah Samat (Researcher)**, Ruslan Rainis, Urban Sustainability at local level, 2006-2008, MOSTI E-Science Fund. Completed.
24. Suriati Ghazali, **Narimah Samat (Researcher)**, Jabil Mapjabil, *Pembinaan Semula Teori Difusi Ruangan dan Rangka Konsep Imaginasi Geografi untuk Menjelaskan Difusi Ruangan dan Imaginasi Geografi Komuniti Transeksual di Universiti Tempatan di Malaysia*, 2006-2009, Fundamental Research Grant, RM60,000.00. Completed.
25. Suriati Ghazali, **Narimah Samat (Researcher)**, Anisah Lee Abdullah and Sharifah Rohayah Syed Dawood, *Wanita Kelantan dan Tempat: Satu Kajian Geografi Gender (Kelantanese Women and Place: A Study on the Geography of Gender)*, 2002- 2004. USM Short-Term Grant. Completed.
26. Tarmiji Masron, **Narimah Samat (Researcher)**, Nazaruddin Zainun, *Tempat dan Sejarah: Aplikasi Sistem Maklumat Geografi (GIS) dalam Memodelkan Perubahan Sempadan Pentadbiran Daerah Pentadbiran di Sarawak 1841 – 2002*. USM Short-Term Grant. Completed.
27. Suriati Ghazali, **Narimah Samat (Researcher)** dan Morshidi Sirat, *Persepsi Penduduk Tempatan Terhadap Impak Sosiobudaya: Kajian Kes di Kampong Santubong, Sarawak*. USM Short Term Grant. Completed.
28. Aishah Knight Abdul Sattar, **Narimah Samat (Researcher)** and Chan Chee Koon, *The mapping of colorectal & breast cancer cases on Penang island with reference to the location of conventional health facilities*, Research University Grants, RM89,000.00. Completed.

PUBLICATIONS:

BOOK

1. Wan Ruslan Ismail, **Narimah Samat** & Noorah Yusof (Editors) (2014), Kerja Lapangan: Teknik, Prosedur dan Aplikasi dalam Geografi (Fieldworks: Techniques, Procedures and Applications in Geography), Penang: Universiti Sains Malaysia Press.
2. Tarmiji Masron, Aziz Abdul Majid, Zikri Mohamad, Norizan Md Nor, **Narimah Samat**, Hassan Naziri Khalid & Osman Yaakob (2014), Pola Permohonan Pelajar ke Institusi Pengajian Tinggi Awam (IPTA), Tanjung Malim: Universiti Pendidikan Sultan Idris.
3. **Narimah Samat**, Zullyadini A Rahaman, Sharifah Rohayah Syeikh Dawood, Wan Ruslan Ismail & Ruslan Rainis (2013) Selected Issues on Health and Environment, Universiti Sultan Idris Publishers.
4. Tarmiji Masron, **Narimah Samat** and Nasir Nayan (Editors) (2009) *Sistem Malumat Geografi di Sekolah (Geographic Information Systems in Schools)*, Kuala Lumpur, Prentice Hall.
5. Chan Ngai Weng, **Narimah Samat** and Jabil Mapjabil (2009) Teknik-teknik dalam Geografi (Techniques in Geography) Penang: School of Humanities, USM.
6. **Narimah Samat** and Tarmiji Masron (2008) *Sistem Maklumat Geografi dalam Analisis Guna Tanah (Geographic Information Systems in Land Use Analysis)*, Penang: Universiti Sains Malaysia.

INTERNATIONAL JOURNAL

1. Muhamad Amirul Mahmud, Narimah Samat & Norzailawati Md Noor (2016) Identifying Factors Influencing Urban Spatial Growth for the George Town Conurbation, *Planning Malaysia*, Vol 14, 2016 [Scopus-cited Journal].
2. Norhidayah Harun & Narimah Samat (2016) GIS-Based Multicriteria Evaluation Approach in Planning Tourism Development Sites in Environmentally Sensitive Areas, SHS Web of Conferences 23, 02001 (2016) [Scopus-cited proceedings]
3. Khalid Sabbar Mohammed, Yasin Abdalla Elhadary & Narimah Samat (2016) Identifying Potential Areas for Future Development using GIS-Based Multicriteria Evaluation Technique, SHS Web of Conferences 23, 02003 (2016) [Scopus-cited proceedings]
4. Khoo Suet Leng, Nurwati Badarulzaman, Narimah Samat, Morshidi Sirat & Sharifah Rohayah Syeikh Dawood (2015) Creative cities research in Penang, Malaysia: A Review of Conceptual and Methodological Framework, *Planning Malaysia: Journal of the Malaysian Institute of Planners*, Vol XIII, 1-18 (scopus-cited Journal)
5. Oliver Valentine Eboy & Narimah Samat Modelling property rating valuation using Geographically Weighted Regression and Spatial Regression Model (SRM): The Case of Kota Kinabalu Sabah, *Geographia Malaysian Journal of Society and Space*, 11 (11) 98-109.
6. Yasin Abdalla Eltayeb Elhadary & **Narimah Samat** (2015) Integrating Geographic Information System and Discriminant Analysis in Modelling Urban Spatial Growth: An Example from Seberang Perai Region, Penang State, Malaysia, *Asian Social Science*, Vol. 11, No. 2; 2015 [Scopus-Cited Journal]
7. Khalid Sabbar Mohamad, Yasin Elhadary & **Narimah Samat** (2015) GIS and Remote Sensing Techniques for Measuring Agriculture Land Loss in Balik Pulau Region of

- Penang State, Malaysia, *Asian Journal of Agriculture and Rural Development*, 5(2)2015, 30-41.
8. Aishah Knight Abd Shatar, Siew Hwa Yen, **Narimah Samat**, Adamu Ahmad Rufai, Wan Abdul Mana Wan Muda, Venkata Murali Krishna Bhavaraju (2014) Lifetime Physical Activity and Breast Cancer Risk, A Case-Control Study in Kelantan, Malaysia, *Asia Pacific Journal of Clinical Oncology*, Vol 10 (suppl.9), 191-191. [ISI-Cited Journal], impact factor 1.658.
 9. **Narimah Samat**, Ghazali, S., Hasni, R. and Elhadary, Y. (2014) "Urban Expansion and its Impact on Local Communities: A Case Study of Seberang Perai, Penang State, Malaysia", *Pertanika Journal of Social Sciences and Humanities*, Vol. 22 (3). 2014. [Scopus-Cited Journal].
 10. Oliver Valentine Eboy & **Narimah Samat** (2014) Development of Poverty Valuation Model for Tax Purposes using Ordinary Least Square Method, *International Journal of Environment, Society & Space*, 1 (2) 52-62, 2014.
 11. **Narimah Samat** (2014) Monitoring the expansion of built-up areas in Seberang Perai region, Penang State, Malaysia, *IOP Conf. Series: Earth and Environmental Science*, 18 (2014) 012180, doi:10.1088/1755-1315/18/1/012180. [ISI-Cited proceedings]
 12. Narimah Samat, Suriati Ghazali, & Colonius Atang (2014) Awareness and Knowledge of Cancer: A Community Survey in Kedah and Perlis, *Asian Social Sciences*, Volume 10, Issue 21, 30 October 2014, Pages 10-18. (Scopus-Cited Journal)
 13. **Narimah Samat** & Aishah Knight Abd Shattar (2014) Spatial Accessibility of Colorectal Cancer Patients to Health Care Facilities: An Example from Kelantan State, *World Applied Sciences Journal*, 31 (10), 2014. pp 1772-1782. (Scopus-Cited Journal)
 14. Najat Qader Omar, Mohd Sanusi S. Ahamad, Wan Muhd Aminuddin Wan Hussin, **Narimah Samat**, & Siti Zubaidah Ahmad, (2014) Markov CA, Multi Regression and Multiple Decision Making for Modeling Historical Changes in Kirkuk City, Iraq, *Journal of the Indian Society of Remote Sensing*, 2014. Indexed by ISI (Impact Factor – 0.344). Accepted for publication.
 15. Najat Qader Omar, Mohd Sanusi S. Ahamad, Wan Muhd Aminuddin Wan Hussin, **Narimah Samat**, & Siti Zubaidah Ahmad, (2014) Markov CA, Multi Regression and Multiple Decision Making for Modeling Historical Changes in Kirkuk City, Iraq, *Journal of the Indian Society of Remote Sensing*, 42 (1), 2014. pp 165-178. [Scopus-Cited Journal] (Impact Factor – 0.344).
 16. Narimah Samat & Norhidayah Harun (2013) Urban Development Pressure: Challenges in Ensuring Sustainable Tourism Development in Langkawi Island, *Procedia - Social and Behavioral Sciences* 91 (2013) 385 – 394. [Scopus-cited proceedings]
 17. **Narimah Samat**, Aishah Knight Abd Shattar, Yasmin Sulaiman, Azizah Ab Manan & Chan Ngai Weng (2013) Investigating Geographic Distribution of Colorectal Cancer Cases: An Example from Penang State, Malaysia, *Asian Social Sciences Journal*, Vol. 9, No. 17, December. 2013. [Scopus cited journal]
 18. Suet Leng Khoo, **Narimah Samat**, Nurwati Badarulzaman, Morshidi Sirat, Sharifah Rohayah Sheikh Dawood, (2013) Spatial Mapping of Creative Industries in Creative Cities: The Case of Penang, Malaysia, *Humanities and Social Sciences Review*, 2(2):151–169 (2013)
 19. Khoo Suet Leng, Narimah Samat, Nurwati Badarulzaman & Sharifah Rohayah Syeikh Dawood, Penang Towards Becoming a Creative City: Challenges Faced by the Architecture Industry, *International Journal of Environment, Society & Space*, 2013, Vol 1(1), pp1-11.

20. Yasin Abdalla Eltayeb Elhadary, **Narimah Samat**, and Franklin Obeng-Odoom, (2013), The development at the peri-urban area and its impact on agriculture activities: An example from the Seberang Perai Region, Penang State, Malaysia, accepted for publication by *Agroecology and Sustainable Food*, Taylor & Francis. [ISI-cited journal].
21. **Narimah Samat** (2013) Estimating the Size of Human Settlement of Bujang Valley, Kedah Using Geographic Information System, *International Journal of the Malay World and Civilization*, Vol 1, (2) pp 11-18.
22. **Narimah Samat**, Aishah Knight Abd Shattar, Oliver Valentine Eboy, Suriati Ghazali, Norsa'adah Bachok & Yen Siew Hwa (2013) Spatial distribution of breast and cervical cancer incidences in Kelantan: A Geographical Analysis, *Jurnal Geografi*, Jilid 1, Bil. 1 2013.
23. Shujah Zaib, Muhammad Adnan Iqbal, Rosenani A. Haque, Muhammad Imran, **Narimah Samat** (2012), Inhabitant Close to the Main Roads at the Outskirts of Metropolitan Cities are Exposed More to SO_x; Eucalyptus Tree as Bioindicator, *Polish Journal of Environmental Studies*, Vol. 21, No 2, Impact Factor 0.94. Science Citation Expanded.
24. **Narimah Samat**, Yasin Abdalla Eltayeb Elhadary, Fatimah Mahdi Hijles, Suriati Ghazali & Morshidi Sirat, POVERTY AND DEPRIVATION: USING GEOGRAPHIC INFORMATION SYSTEM IN EVALUATING THE ACCESSIBILITY OF HOUSEHOLDS TO FOOD RETAILERS IN PENANG STATE, MALAYSIA, *e-Bangi Journal of Social Sciences and Humanities*, 2012, 7, 2, 15.
25. Suriati Ghazali, Colonius Atang, **Narimah Samat**, Norizan Md Nor, Azlinda Azman, Intan Hashimah Hashim & Khairiah Salwa Mokhtar, Knowledge and Awareness of Malaysian Cancer Patients and their Family towards Facing and Coping with Cancer, *Health and the Environment Journal*, 2012, 3, 2, 13
26. Suriati Ghazali, Jabil Mapjabil, Azilah Mohamad Nor, **Narimah Samat** & Jas Laile Suzana Jaafar, Spatial Diffusion of Transsexualism and Geographical Imagination of the Cross-Dressed Male Students in Malaysian Local Universities, *e-Bangi - Journal of Social Sciences and Humanities*, 2012, 7, 1, 14
27. Yasin Abdalla Eltayeb Elhadary & Narimah Samat (2012), Managing Scarcity in the Dryland of the Eastern Sudan: the Role of Pastoralists' Local Knowledge in Rangeland Management, *Resources and Environment*, 2012, 2, 1, 12
28. Yasin Abdalla Eltayeb Elhadary and **Narimah Samat** (2012) Political Economy and Urban Poverty in the Developing Countries: Lessons learned from Sudan and Malaysia, *Journal of Geography and Geology*, 4, 1, 12.
29. **Narimah Samat** (2012) Tekanan Pembangunan di Seberang Perai Tengah Pulau Pinang, Satu Analisis Terhadap Peluang dan Cabaran kepada Masyarakat Tempatan, *Jurnal Perspektif*, 4(2) 2012.
30. **Narimah Samat**, Rosmiyati Hasni and Yasin Abdalla Eltayeb Elhadary (2011) Modelling Land Use Changes at the Peri-Urban Areas Using Geographic Information Systems and Cellular Automata Model, *Journal of Sustainable Development*, Vol. 4, No. 6; December 2011, 72-84
31. Khalid Sabbar Mohammed, **Narimah Samat** & Hassan Naziri Khalid (2011) Using remote sensing and GIS for observation of land use land cover changes and quantifying arable land loss in Penang Island – A case study of Balik Pulau, 32nd Asian Conference on Remote Sensing 2011, ACRS2011, Taipei, 3 – 7 Oct 2011, [Scopus cited proceedings].
32. Yasin Abdalla Eltayeb Elhadary and **Narimah Samat** (2011) Political economy and urban poverty in the developing countries: Lesson learned from the Sudanese Experience, *Journal of Geography and Geology*, Vol 3, No.1, 2011.
33. Wan Rose Eliza Abdul Rahman, **Narimah Samat**, Anisah Lee Abdulah and Sri Ramona Ahmad (2011), Kerelevanan Penterjemahan Istilah Teknikal Sistem Maklumat Geografi (GIS) daripada Bahasa Inggeris ke Bahasa Melayu (The relevance of interpreting Geographic Information

- Systems Technical Texts from English to Malay), *Jurnal Penterjemah- Journal of the Malaysian Translators Association*, 2011 Vol XIII (2), 1-17.
34. Samer Raddad, Abdul Ghani Salleh, and **Narimah Samat** (2010) Determinants of Agriculture Land Use Change in Palestinian Urban Environment: Urban Planners at Local Governments Perspective, *American-Eurasian Journal of Sustainable Agriculture*, 4(1) 30-38. [Scopus-cited journal]
 35. **Narimah Samat** and Ong Swee Li (2010) Integrasi Sistem Maklumat Geografi Dan Kaedah Penilaian Pelbagai Kriteria Dalam Pemilihan Tapak Perumahan Kos Rendah: Kajian Kes Di Seberang Perai Utara, Pulau Pinang, Malaysia, *Jurnal Teknologi*, 52, 77–93. [Scopus-cited journal]
 36. **Narimah Samat**, Aishah Knight Abd Shatar, Dina Jambi, Norulshahira Musa Azizah Ab Manan & Yasmin Sulaiman (2010) Using Geographic Information System in Evaluating Accessibility of Breast Cancer Cases to Health Facilities in Penang State, Malaysia, *Kajian Malaysia (Journal of Malaysian Studies)*, July 2010.
 37. **Narimah Samat** (2010) Assessing Land Use Land Cover Changes in Langkawi Island: Towards Sustainable Urban Living, *Malaysian Journal of Environmental Management*, Vol 11(1), 48-57.
 38. **Narimah Samat** (2009) Integrating GIS and CA-MARKOV Model in Evaluating Urban Spatial Growth, *Malaysian Journal of Environmental Management*, Vol 10(1), 83-100.
 39. Abdul Samad Hadi, Abdul Hadi Harman Shah, Shahrudin Idrus, Ahmad Fariz Mohamed, Ruslan Rainis and **Narimah Samat** (2009) Agents and Livability: Constructing the underlying premises of local sustainability, *Malaysian Journal of Environmental Management*, Vol 10(1), 33-42.
 40. Tarmiji Masron, **Narimah Samat** and Nazaruddin Zainun (2008) British Colonialization and the spatial shape of Sarawak, Borneo, *The Sarawak Museum Journal*, Vol LXV(86), 243-260.
 41. **Narimah Samat** (2007) Integrating Geographic Information System and Cellular Automata Model in Modelling Urban Spatial Growth: Prospects and Challenges". *Jurnal Alam Bina*, Jilid 09 (1).77-91.
 42. Tarmiji Masron, **Narimah Samat** dan Nazaruddin Zainun (2007) Aplikasi GIS dalam Analisis Perubahan Sempadan Negeri dan Bahagian di Sarawak dari tahun 1841 hingga 2002, *Borneo Research Journal*, Vol 1, 43-54.
 43. **Narimah Samat** (2006) "Characterising scale sensitivity of cellular automata model of urban growth: A case study of Seberang Perai, Penang, Malaysia", *Computers, Environment and Urban Systems*, Vol 30, 901-910. [scopus-cited journal] **Impact Factor 1.147.**
 44. **Narimah Samat** dan Tarmiji Masron (2005) Application of Geographic Information System in Monitoring Land Use Changes: A Case of Seberang Perai, Penang, Malaysia. *Jurnal Kinabalu*, 111-129.
 45. **Narimah Samat** (2005) "Validating the Performance of GIS-based Cellular Automata Spatial Model: A Case of Seberang Perai , Penang Malaysia" Buletin GIS, Bil 1, 2005.
 46. **Narimah Samat** (2004) Application of an urban simulation model in understanding urban growth and development: A case of Seberang Perai, Penang Malaysia. *Geoinformation Science Journal*, Vol 4 (1), 2004, 9 -18.
 47. **Narimah Samat** (2002) Using a GIS-based Cellular Automata Model for Planning and Policy Evaluation: A Case of Seberang Perai, Penang, Malaysia, *Journal of Malaysian Studies, Volume XX, No2*, 89-114.

48. **Narimah Samat** and Ruslan Rainis (2001) Integration of GIS and statistical technique to model urban residential land use development: a case study of Butterworth, Penang, *Malaysian Journal of Remote Sensing and GIS*, Vol 2, 87-97.
49. Ruslan Rainis and **Narimah Samat** (1996) Modelling urban residential land use development using GIS, *Journal of Housing, Building and Planning*, Vol III, 10 – 18.
50. **Narimah Samat** and Ruslan Rainis (1996) Aplikasi Foto Udara dalam Mengkaji Sejarah Perkembangan Bandar: Kajian Kes Bandar Butterworth, Pulau Pinang, (Application of Aerial Photo in Studying Historical Urban Growth: A Case Study of Butterworth, Penang) *Kajian Malaysia (Journal of Malaysian Studies)*, Volume. XIV, No 1 & 2, 194- 207.

CHAPTER IN BOOKS

1. Morshidi Sirat & Narimah Samat (2014) Penggunaan, Penyalahgunaan dan Kelemahan Statistik dalam Menganalisis Data Kerja Lapangan, Dalam: Wan Ruslan Ismail, Narimah Samat & Noorah Yusof (penyunting) Kerja Lapangan: Teknik, Prosedur dan Aplikasi dalam Geografi, Pulau Pinang: Universiti Sains Malaysia, 8-17.
2. Ibrahim Jaafar & Narimah Samat, Aspek-aspek Keselamatan semasa Menjalankan Kerja Lapangan, Dalam: Wan Ruslan Ismail, Narimah Samat & Noorah Yusof (penyunting) Kerja Lapangan: Teknik, Prosedur dan Aplikasi dalam Geografi, Pulau Pinang: Universiti Sains Malaysia, 18-24.
3. Narimah Samat & Tarmiji Masron (2014) Potensi Penggunaan Sistem Maklumat Geografi dan Sistem Keletakan Global dalam Kerja Lapangan Geografi, Dalam: Wan Ruslan Ismail, Narimah Samat & Noorah Yusof (penyunting) Kerja Lapangan: Teknik, Prosedur dan Aplikasi dalam Geografi, Pulau Pinang: Universiti Sains Malaysia, 42-54.
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GRADUATE STUDENTS SUPERVISION

MSc – Dissertation (mixed mode)

1. Mohd Sahrul Syukri Yahya, Master (Dissertation - Mixed Mode), Penilaian Kebolehpayaan Pejalan Kaki di Tapak Warisan George Town, Pulau Pinang, Main Supervisor, 2016
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5. Rosnita Muhamad (2011) Safe City in Promoting Sustainable Community. Dissertation of MSc (Sustainable Cities and Communities). main supervisor, graduated.
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7. Yunalis Mohd Mustapa (2010), PERANAN RUANG LAPANG DAN REKREASI DALAM MEMENUHI KEHENDAK KOMUNITI SETEMPAT : KAJIAN KES TAMAN PERBANDARAN / BELIA PULAU PINANG, MSc (Cities and Sustainable Communities) Dissertation – main supervisor, graduated..
8. Mohd Izham Abdullah (2010) Refuse Bin Management: A Case Study in Taman Kelisa Ria Sungai Petani Kedah, MSc(GIS) Dissertation – Main Supervisor, completed.
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 14. Ong Swee Li (2005) The application of Geographic Information System in Selecting Low Cost Housing Sites: A Case Study of Seberang Perai, Penang. Master of Science (Geographic Information Sciences). As a Main Supervisor – Main Supervisor. Completed.

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MA (Research Mode)

1. Siti Masayu Rosliah Abdul Rashid (2009) “Peluang dan Cabaran Pendidikan Dalam Kalangan Masyarakat Luar Bandar: Satu Kajian Kes di Jajahan Bachok, Kelantan”. (Educational Opportunities and Challenges for Rural Communities: A Case Study in Bachok District, Kelantan). MA (Research) – Co-supervisor. Graduated.
2. Sharmili Man “*Urban redevelopment: a case of Butterwoh, Penang*”, MA (Research). Main-supervisor. Graduated.
3. Nor Hidayah Haron “*Integrating GIS and MCE Approach in Evaluating Environmental Sensitive Areas: a case of Langkawi Island*”, MA (Research) main supervisor. Graduated.
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PhD (Research Mode - Graduated)

1. Samer Hatem Raddad, Assessment of Urban Expansion and Agriculture Land use Change in Ramallah Metropolitan -Palestine by Using Geo-Information Technology, PhD, Graduated, 2011.
2. PhD, KHALID SABBAR MOHAMMED, Urban Expansion, Development Pressure and The Perception of the Local Communities: The Application of Geographic Information System (GIS) and Remote Sensing (RS), 2014 **Main Supervisor**
3. PhD, NAJAT QADER OMAR, Markov-CA and Multiple Decision Analysis for Modelling Land Use and Land Cover Change in Kirkuk/Iraq, 2014 **Co-supervisor. Graduated**
4. PhD, SHAHARUDIN BIN IDRUS, Urban Growth And Relationship With The Livability Satisfaction In Seremban, Negeri Sembilan, Malaysia, 2014 **Co-supervisor, Graduated.**
5. PhD, COLONIUS BIN ATANG, Sociocultural Elements in the Geography of Health: A Behavioral Study of Dealing with Cancer Among the Malays in Pulau Pinang and Kedah, 2014, co-supervisor, Graduated.
6. Oliver Valentine Eboy, The Effectiveness of Spatial Statistics in Property Rating Valuation Modelling: A Case Study of Kota Kinabalu City Hall, Graduated 2015. Main Supervisor.

PhD (Research Mode – on-going)

1. PhD, HAFIZAH BINTI ROSLI, Analysis of Housing Ownership among Civil Servants in Malaysia, Main supervisor.
2. PhD, MOHD AMIRUL BIN MAHAMUD, Agent-Based Modeling and Simulation in Predicting Urban Spatial Growth, main supervisor

3. PhD, LEE YI YI, Physical Activity and Nutritional Status among Adults and their Relationship with Physical and Built Environment in Kota Bharu and Penang, Malaysia, **co-supervisor**
4. PhD, MOHAMMAD GHAZI BIN ISMAIL, Efficiency Of Non Revenue Water (NRW) Management In Increasing Water Security In The State Of Kelantan, **Penyelia BERSAMA**
5. PhD, MOHD AZMEER BIN ABU BAKAR, Spatial Inequality of Ecosystem Changes and Natural Assets: Challenges towards Sustainable Livelihood, **Penyelia BERSAMA**
6. PhD, ROSMIYATI BINTI HASNI, Akan ditentukan kemudian, **Penyelia UTAMA**

AWARDS AND RECOGNITIONS:

- Scholarship, Public Service Department, Malaysia, to pursue B.Sc Degree in Southwest Texas State University, Texas, United States of America, 1986 – 1990.
- Fellowship, Commonwealth Scholarship and Fellowship Plan, Association of Commonwealth Universities, to pursue PhD in University of Leeds, United Kingdom 1999-2002.
- Excellent Service Award 2006, Universiti Sains Malaysia, 2006.
- Excellent Service Award 2010, Universiti Sains Malaysia, 2010.
- 10 Jan 2014 – 10 June 2014, Visiting Fellow, Faculty of Arts and Social Sciences, Universiti Brunei Darussalam.

THESIS EXAMINER (PhD/MSc/MA)

1. (2013) External Examiner for PhD Thesis. Environmental Degradation Caused by Practices in Traditional Production Systems Among Rural Community A Case Study of Gubaysh Area, Western Sudan, Universiti Kebangsaan Malaysia, PhD Thesis.
2. (2013) External Examiner for PhD thesis. Development of a novel diagnostic technique and geospatial database for soil-transmitted helminthiasis in Malaysia, Romano Ngui, Universiti Malaya
3. (2012) External Examiner for PhD thesis. Towards a Spatial Model for Entertainment Establishment Related to Crimes in Kuala Lumpur, Universiti Malaya. PhD Thesis.
4. (2012) Internal Examiner of MA Thesis. Aplikasi Sistem Maklumat Geografi (SMG) dalam Menganalisis Evolusi Resort Pinggir Pantai di Batu Feringghi, Pulau Pinang, Universiti Sains Malaysia, MA Thesis.
5. (2011). External Examiner for PhD thesis. Sprawl Development and its Impacts on Urban Environment by Using Remote Sensing and Geographic, Universiti Teknologi Malaysia.
6. (2012) Internal Examiner of PhD Thesis. Developing a Spatial Model of Customer lifetime Value using Geographic Information Systems Approach to Enhance the Capability of Prospecting "Free Customer" Profitability, Abdul Manaf Bohari, Universiti Sains Malaysia
7. (2010) External Examiner. Assessment Development Impact on Selangor's Mangrove Forests using Geospatial Technology, MSc. Thesis, Faculty of Science, Universiti Malaya.
8. (2010) Internal Examiner of PhD Thesis. Spatial Poverty Mapping of Individuals in Rajshahi City, Bangladesh, PhD Thesis, Universiti Sains Malaysia. PhD Thesis.

9. (2010) Examiner for MSc (Mixed-mode) Geographic Information Science Analysis in Ethnic and Socio-Economic Diversity of Peninsula Malaysia, Murtala Rabi'u, Universiti Sains Malaysia, 22/11/2010- 12/8/2010
10. (2009) The Hand, Foot and Mouth Disease Outbreak in Kuching City, 2006: A Geographical Assessment, MscGIS (mixed mode).
11. (2009) Pemetaan Jenayah Pecah Rumah dan Analisis Ruangan, Kajian Kes Pusat Bandaraya Ipoh, MscGIS (mixed mode).
12. (2009) Internal Examiner for MSc (Mixed-mode) LANDSLIDE SUSCEPTIBILITY MAPPING USING GEOGRAPHIC INFORMATION SYSTEM (GIS): A CASE STUDY IN CAMERON HIGHLANDS, MALAYSIA, Raja Maulana, Universiti Sains Malaysia, 20/11/2009- 9/12/2009
13. (2007) Internal Examiner of PhD Thesis. Pembentukan Model Ruangan Corak Pengundian di Wilayah Utara Semenanjung Malaysia, Doctor of Philosophy. PHD Thesis
14. (2005) Perlakuan Jenayah dan Kaitannya dengan Perbandaran: Satu Kajian Kes di Pulau Pinang. MA Thesis.
15. (2006) Pembentukan Sistem Respons Kecemasan (ERS) Berasaskan Sistem Maklumat Geografi (GIS): Kajian Kes di Subang Jaya, Selangor. MA Thesis.
16. (2006) The development of an open source Web-based GIS for route planning of sightseeing tour", MSc GIS (mixed mode).
17. Rashida binti Ramli (2005). "Keberkesanan Penggunaan Teknologi Multimedia dalam Pengajaran dan Pembelajaran Kesusasteraan Melayu berdasarkan Pencapaian Pelajar Berbeza Gaya Kognatif Berbanding Kaedah Tradisional. MA (mixed mode).

REVIEWER AND ASSESSOR

Manuscript Reviewers

1. 2013. Sensitivity Analysis of Transition Rules in Cellular Automata Model for Urban Growth Simulation" for the International Journal of Geographical Information Science.
2. 2013. The Form of Mediterranean Cities: An Integrated Morphological Assessment in a Changing Urban Region, Applied Spatial Analysis and Policy.
3. 2013. The Socio-Technical Implications of Geographic Information Systems (GIS): The Case of Planning Departments, Kuala Lumpur City Hall, Malaysia. Pertanika-Journal of Science and Technology.
4. (Jan 2013) "Predicting Urban Land Use Changes using CA-Markov Model" – 2nd review, *Arabian Journal for Science and Engineering (AJSE)*, Springer Publishing, Indexed by ISI.
5. 2012. *Sistem Maklumat Geografi dalam Kajian Demam Denggi di Malaysia*, Universiti Malaya Press.
6. 2012, Quantifying and Analyzing Neighborhood Configuration Characteristics to Cellular Automata for Land Use Simulation Considering Data Source Error, *Earth Sciences Informatics*, Indexed by Scopus.
7. 2012 Spatial-Temporal Decision Support Systems for the Developing World: Managing Peri-Urban Complexity in Africa, *Journal of Geography and Regional Planning*,
8. Communication Pattern and Decision Making in Parti Keadilan Rakyat (the People Justice Party) Malaysia: Phenomenography Approach, , 2011, International Sustainable Tourism Research Cluster, , 2012, Universiti Sains Malaysia

9. (2012) Home Ownership Among Middle and Lower Income Urban Dwellers in Malaysia: Issues and Challenges, *Kajian Malaysia*, 2012
10. (2012) Spatial-Temporal Decision Support Systems for the Developing World: Managing Peri-Urban Complexity in Africa, *Journal of Geography and Regional Planning*, , 2012
11. (2012) Quantifying and Analyzing Neighborhood Configuration Characteristics to Cellular Automata for Land Use Simulation Considering Data Source Error, *Earth Sciences Informatics*,
12. (2012) Struktur Ruang dan Elemen Persekitaran Rumah Melayu Tradisi di Kelantan, *Jurnal Perspektif*.
13. 2011. *Earth Science Informatics*. Quantifying and Analyzing Neighborhood Configuration Characteristics to Cellular Automata for Land Use Simulation Considering Data Error.
14. 2011. *Jurnal Perspektif*. Reka Bentuk dan Corak Hiasan Kaki Lima Rumah Kedai Tradisional di Bandaraya Ipoh Perak.
15. 2010. *The Professional Geographer*. Changes in Correlation Coefficients with Spatial Scale and Implications for Water Resources and Vulnerability Studies. Association of American Geographer.
16. 2010. *Journal of Ecology and Natural Environment*, Traditional Religion and Natural Resources': A Reflection on the Significance of Indigenous Knowledge Systems on the Utilisation of Natural Resources among the Ndaou people in Southeastern Zimbabwe, *Academic Journal*.
17. 2009. *Pertanika – Journal of Science and Technology*, "The Spatial Interconnection between Agro-ecological Dissimilarities and Poverty in Bangladesh: A Case Study, Universiti Pertanian Malaysia.
18. 2008. *Applied Spatial Analysis and Policy*, Modeling and Measuring the Economic Success of Farming Families using Remote Sensing and GIS: An example from mountains of Nepal Springer.
19. 2006. Book Reviewer. International Society for Photogrammetry and Remote Sensing Highlights, Books By Okabe, A. "GIS based Studies for Social Sciences and Humanities, Published by Taylor & Francis, London.
20. 2006. Persekitaran Sistem Maklumat Geografi. Manuscript Assessor (Book), Universiti Perguruan Sultan Idris Publisher.
21. 2006. Sistem Maklumat Geografi dalam Perancangan Pembuatan Keputusan Perniagaan. Manuscript Assessor (Book), Universiti Perguruan Sultan Idris Publisher.
22. 2004, GIS as a decision support tool for landfills siting, *Kinabalu Journal of Business and Social Sciences (Jurnal Kinabalu)*, Universiti Malaysia Sabah.

Technical Assessor for Grant Applications at University Level

1. Kajian Kebolehpasaran Dan pola pekerjaan Graduan Geografi Universiti Sains Malaysia, , 2012, -, , University
2. Perbandingan Tatabahasa Bahasa Inggeris- Bahasa Malaysia Dan implikasinya Terhadap terjemahan, , 2012, -, , University
3. Pepadanan Kata Hubung Dan Kata Sendi Bahasa Cina-Bahasa Melayu Dalam Terjemahan Kesusasteraan, , 2012, -, , University
4. Learner's Language Learning Preferences: A Comporative Study Of E-Learning And Traditional (T) Learner's In Public Universities In Malaysia, , 2012, -, , University

5. Target Situation analysis In Education For Sustainable (ESD) in Malaysia-Based Multi-National Companies: Ihe Case Of A major European Language, German., , 2012, -, , University
 6. Faktor Pelindung Dalam Kalangan Pelajar yang Bersahsiah Wajadiri Akademik, , 2012, -, , University
 7. Pertumbuhan Dan Taburan Ruangan Bandar-Bandar Di Malaysia 1911 '2011, , 2012, -, , University
 8. Makanan Bandar Sebagai Pembikin Tempat Dan pembentukan Naluri Tempat Di Pulau pinang (Urban Food As place-Making And The Creation Of Sense Of Place In penang), , 2012, -, , University
 9. The Evaluation Of Community Participation In Housing Reconstruction Projects After Disaster, , 2012, -, , University
 10. Kajian Terhadap Seni persembahan Tradisional Tari Ritual 'Ketam Bangkang': Signif ikasi Konsep Ritual Dalam Masyarakat Orang Asli Seletar Masa Kini, , 2012, -, , University
 11. Enhancing School Children's Pre-Environmental Behavior With Respect To Biodiversity, , 2012, -, , University
 12. Terrorism And Disaster Management A Study On The Knowledge, Attitude And Practice Among The Public University Educators At East Coast Of Peninsular Malaysia, , 2012, -, , University
 13. Preparing Undergraduates For Employability: The Use Of Explicit Insruction In Enhancing Critical Literary, , 2012, -, , University
 14. Perubahan Landskap Sistem Perbankan Islam dan Kesannya ke Atas Kelestarian Pembangunan EKS di Kawasan Bandar-Bandar Besar dan Sederhana di Semenanjung Malaysia, , 2012, -, , University
 15. Kajian Penanaman Kebun Dapur Sebagai Sumber Alternatif Bekalan Sayuran di Pulau Langkawi, , 2012, -, , University
 16. Tumbuhan Landskap Dalam Budaya Masyarakat Melayu, , 2012, -, , University
1. MALAYSIAN SOCIALWORK ANDWELFARE EDUCATION: Placing Professional Social Work Education In ASEAN Countries, , 2012, -, , University
 2. 2012. Technical Assessor for Social Transformation Research Platform, Universiti Sains Malaysia.
 3. Technical Assessor for E-Science Fund Proposal Titled "Habitat Requirements of the Black Giant Squirrel (Ratufa Biocolor) and Flying Lemur (Cynopcephalus Viragatus) in Penang National Park: Comparing Field Survey, GIS and Remote Sensing Data".
 4. Technical Assessor for USM Short Term Research Proposal Titled "Pola Reruang Imbangan Air dan Endapan di Kawasan Tadahan Empangan Timah Tasoh".
 5. Grant Assessor for USM Ru Grant, Ruang Maritim Arena Wati: Satu Analisis Undang-Undang dan Budaya Maritim.
 6. Grant Assessor for Geran Universiti Kluster Sains & Teknologi, RU Grants Applications.

CONSULTATIONS

7. Economic Planning Unit, Prime Minister Department, Preparation of Penang Bumiputera Strategic Plan, 1 Mac 2013 – 31 Julai 2013.

8. Malaysian Competitiveness Report (Wilayah Utara) , MALAYSIAN PRODUCTIVITY CORPORATION (MPC) , RM4,500.00, , 10/4/2013-10/6/2013
9. Pola Kemasukan Pelajar di Institusi Pengajian Tinggi Awam (IPTA): Implikasi Polisi dari Sudut Peluang dan Kesamarataan, Ministry of Higher Education, 170000, 9/7/2012 - 8/1/2013.
10. Pelan Strategik Pembangunan Sosio-ekonomi Bumiputera di Pulau Pinang, 2013-2015., 1 Mei 2013 – 1 Sept 2013, Unit Penyelarasan Bumiputera Pulau Pinang, Jabatan Perdana Menteri, RM399,173.20.
11. OECD/IMHE Review of Higher Education Institutions in Regional Development - Presenting The Penang Region/City – Region, 6 months, Morshidi et al., IPPTN & Universiti Sains Malaysia.
12. Penang Bumiputera Economic Policy Study, Economic Planning Unit, Prime Minister Department, Prof. Dato' Jamalludin Sulaiman, Dr Narimah Samat, Dr. Nor Malina Malik, Dr Azeem. 6 Months.
13. Study on Developing Agricultural Based Industry Database for Penang State, State Economic Planning Unit, Prof. Dato' Jamalludin Sulaiman, Dr Azlinda Azman, Dr Saidatulakmal Mohd, Dr Narimah Samat, Dr. Nor Malina Malik, Dr Azrina Hussin, Dr. Salfarina Abd Ghafor, Dr Mohd Zaini, Prof. Amir Baharuddin, Dr Azeem, 6 months.
14. Kajian Membangunkan Metodologi untuk Pengiraan KDNK Negeri Pulau Pinang – Tahap II dan Tahap III. (Study on Developing a Methodology for Calculating Gross Domestic Products for Penang State – Phase II and Phase III). Penang State Economic Planning Unit, RM 221,070.00, Dr Zakaria Bahari, Dr Saidatulakmal Mohd, Prof. Dato' Dr Jamalludin Sulaiman, Dr. Narimah Samat, Dr Azlinda Azman, 14 months.
15. Kajian Sektor Pertanian dan Industri Asas Tani Pulau Pinang (Study on Agricultural and Agricultural Based Industry in Penang State), Penang State Economic Planning Unit, September 2006 – June 2007, RM 154,693.70, Prof. Jamalludin Sulaiman, Dr Malina Malik, Dr. Narimah Samat, Dr Noreha, Dr Zakaria Bahari, Dr Azeem, 7 months.
16. Kajian Penglibatan Bumiputera dalam Pelancongan di Pulau Pinang (Study on Bumiputera Involvement in Tourism in Penang), Penang State Economic Planning Unit, September RM97,949.00, Dr. Saidatulakmal Mohd, Dr Narimah Samat, Assoc Prof Suriati Ghazali, 6 months.
17. Kajian Sosio-Ekonomi Bumiputera di Pulau Pinang (Study on Bumiputera's Socio-economic in Penang), Penang State Economic Planning Unit, RM264,300.00, Dr Salfarina Abd Ghafor, Dr Zulkarnain Hatta, Dr Zakaria Bahari, Dr Saidatulakmal Mohd, Prof. Jamalludin Sulaiman, Dr. Narimah Samat, Dr Azlinda Azman, Dr Noreha, Dr Azeem, 9 months .
18. Kajian Kemiskinan di Pulau Pinang (Study on Poverty in Penang), Penang State Economic Planning Unit", RM251,600.34. Prof. Jamalludin Sulaiman, Dr Azlinda Azman, Dr Malina Malik, Dr. Narimah Samat, Dr Salfarina Abd Ghafor, Assoc Prof Suriati Ghazali, 9 months.
19. Micro Level Poverty Study for Balik Pulau and Bagan Datoh Palimentary Seats, Minister of Finance, Prof. Jamalludin Sulaiman, Dr Azlinda Azman, Dr Malina Malik, Dr. Narimah Samat, Dr Salfarina Abd Ghafor, Dr Azeem, 3 months.
20. Pulau Pinang Bumiputera Economic Policy Study, Economic Planning Unit, Prime Minister Department, Prof. Jamalludin Sulaiman, Dr Azlinda Azman, Dr Malina Malik, Dr. Narimah Samat, Dr Salfarina Abd Ghafor, Prof Amir Baharuddin, Dr Zaini and Assoc Prof Ismail Baba, 3 Months.
21. Kajian Membangunkan Pangkalan Data Pengusaha Industri Asas Tani di Pulau Pinang, Penang State Economic Planning Unit, RM64,000.00. Prof. Jamalludin Sulaiman, Dr Malina Malik, Dr. Narimah Samat, Dr Azeem. 5 months.
22. Digitising of Cadastral and Cable Distribution Maps for CH2MHILL Communication Sdn Bhd. Ruslan Rainis & Narimah Samat, 2 months.
23. Digitising of Cadastral Maps/GIS, Pihak Berkuasa Air, Pulau Pinang. Ruslan Rainis, Narimah Samat & Noresah Mohd. Shariff, 8 months.

24. Examiner for Geography Paper 942/2, Sijil Tinggi Persekolahan Malaysia, Majlis Peperiksaan Malaysia.

OTHER ACTIVITIES

1. Volleyball player in 19th Intersity Staff Sport Competition 1994, Universiti Putra Malaysia.
2. Badminton player in 21st Intersity Staff Sport Competition 1996, Universiti Kebangsaan Malaysia (runner-up)
3. Volleyball player in 21st Intersity Staff Sport Competition 1996, Universiti Kebangsaan Malaysia.
4. Netball player in the USM/Milo 2003 representing “Persatuan Wanita USM”, 19 – 20 Julai 2003.
5. Badminton player representing Universiti Sains Malaysia in 29th Intersity Staff Sport Competition in Universiti Kebangsaan Malaysia, 18 – 24 April 2004.
6. Member of Archery Club, Universiti Sains Malaysia since 1992.
7. Member of Staff Sports Club, Universiti Sains Malaysia, since Feb 1999.
8. Member, Association of Wives and Ladies of the Malaysian Civil Service, Membership number 35-0342.
9. Chairperson, Paper Presentation for Penang 2 Colloquium, 29-30 May 2006.
10. Editor, Buletin PKGM, National Geographical Association of Malaysia.
11. Advisor for Angkatan-Angkatan Mahasiswa Perlis, Universiti Sains Malaysia.
12. Vice President, Residents Association, Taman Desa Relau 2, 2003 – 2004.
13. Organising Committee, Websites launching and Colouring Competition, Taman Desa Relau, 23 December 2003.
14. Ordinary member, USM Muslim Staff Association (Persatuan Kakitangan Islam USM). 1995 – present.
15. Committee Members Parent Teacher Association, Sek Keb. Bukit Gambir, 2004-2005.
16. Committee Members Parent Teacher Association, Sek Keb. Bukit Gambir, 2005-2006.
17. Auditor, Residents Association, Taman Desa Relau 2, 2005-2007.