

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI (Personal Details)			
Nama Penuh (Full Name)	Zulfa Hanan Binti Ash'aari		Gelaran (Title): Dr.
No. MyKad / No. Pasport (Mykad No. / Passport No.)	Warganegara (Citizenship) Malaysia	Bangsa (Race) Malay	Jantina (Gender) Female
Jawatan (Designation)	Senior Lecturer	Tarikh Lahir (Date of Birth)	1985

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
Department of Environmental Sciences, Faculty of Environmental Studies, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Tel: 03-8946 8024	Department of Environmental Sciences/ Faculty of Environmental Studies Tel: 03-8946 8024 Fax: 03-8946 7463	E-mail: zulfa@upm.edu.my zulfa.fpas@gmail.com URL: H/P: 012-341 9916

B. KELAYAKAN AKADEMIK (Academic Qualification)			
Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
Ph.D	University of Sheffield	2013	Remote Sensing, GIS, Meteorology
Bachelor of Computer Science (first class Hons.)	Universiti Putra Malaysia	2007	Software Engineering
Pre-university	Malacca Matriculation College	2004	Physical Science

C. KEMAHIRAN BAHASA (Language Proficiency)					
Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English				√	
Bahasa Melayu					√
Lain-lain (other):					

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (<i>Scientific experience and specialization</i>)				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
National Institute for Environmental Studies (NIES) Japan	Course Participant	6 June 2016	7 June 2016	Remote Sensing
Japan Aerospace Exploration Agency (JAXA), the National Institute for Environmental Studies (NIES), and the Ministry of the Environment (MOE)	Researcher	April 2016	March 2019	Greenhouse Gases
Persatuan Sains Pengangkutan Malaysia	Member	Jun 2014	-	Air Quality
GIScience for Civil Protection Management in Southeast Asia	Course Participant	5 October 2015	9 October 2015	GIS

E. PENGALAMAN KERJA (<i>Employment experience</i>)				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Universiti Putra Malaysia	Senior Lecturer	Environmental Sciences	Mar 2013	Present
Universiti Putra Malaysia	Tutor	Environmental Sciences	July 2007	Feb 2013
University Putra Malaysia	Research Assistant	Computer Science	May 2007	July 2007
University Putra Malaysia	Demonstrator	Computer Science	2005	2007

F. ANUGERAH DAN HADIAH (Honours and Awards)				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>	1. Anugerah Perkhidmatan Cemerlang 2016	1. UPM	1. University	2016
	2. SLAI Scholarship for Doctorate (Ph.D.) program	2. Ministry of Higher Education (MOHE)	2. National	2008
	3. First Class Degree	3. Universiti Putra Malaysia (UPM)	3. University	2007
	4. Dean's List	3. Faculty of Computer Science and Information Technology.	4. Faculty	2005-2007
	5. Vice-Chancellor List	4. Universiti Putra Malaysia	5. University	2005/2006
	6. Roll of Honour award	5. 12 th College, UPM	6. College/ University	2005

G. PENERBITAN TERPILIH <i>Selected Journals</i>	
<i>Journals</i>	<p>Fathiah Alaswad, Ferdaus Mohamat-Yusuff, Roslan Ismail, Faradiella Mohd Kusin, Zulfa Hanan Ashaari, Khairiah J (2017) Spatial distribution of carbon and nitrogen stable isotope in soil of oil palm plantation. <i>Advances in Environmental Biology</i>, 11, 16-25.</p> <p>Rasheida E. Elhadi, Ahmad Makmom Abdullah, Abdul Halim Abdullah, Zulfa Hanan Ash'aari, D.Y. Gumel, Fedel. M. Binyahmed (2016) Identification of heavy metals in particulate matter PM10 of Traffic Areas, Cheras, Malaysia. <i>Environment & Ecology</i> 34(4) 1731-1734.</p> <p>Maher Milad Aburas, YuekMing Ho, Mohammad Firuz Ramli, Zulfa Hanan Ashaari (2016) The Simulation and prediction of spatio-temporal urban growth trends using cellular automata models: A review. <i>International Journal of Applied Earth Observation and Geoinformation</i>, 52:380-389 (Q1)</p>

G. PENERBITAN TERPILIH*Selected Journals*

Hilal, Y.Y., Wan Ishak, W., Azmi Yahya, **Zulfa H. Ash'aari** (2016). An Artificial Neural Network with Stepwise Method for Modelling and Simulation of Oil Palm Productivity Based on Various Parameters in Sarawak (*in press*) (Q3)

Othman, M., **Ash'aari, Z.H.**, et al. (2016) Assessment of drought impacts on Vegetation Health: A Case study in Kedah. IOP Conference Series Earth and Environmental Science 37(1):012072. **corresponding author*

Khaled Ali Ahmed Ben Youssef, Ahmad Makmom Abdullah, Helmi Zuhaidi Mohd Shafri, **Zulfa Hanan Ash'aari**, Danladi Yusuf Gumel, Sara yasina Yusof (2016). Estimation of Aerosols dispersion & urban Air Quality evaluation over Malaysia using MODIS satellite, International Journal of Advanced Scientific and Technical Research, 6, 229-238.

Maher M Aburas, Sabrina H Abdullah, Mohamad F Ramli, **Zulfa H Ash'aari** (2016). Landscape Analysis of Urban Growth Patterns in Seremban, Malaysia Using Spatio-Temporal Data. IOP Conference Series Earth and Environmental Science 37(1):012055

Mohamad, N.D., **Ash'aari, Z.H.** and Melawani, O. (2015) Preliminary assessment of air pollutant sources identification at selected monitoring stations in Klang Valley, Malaysia. Procedia of Environmental Sciences, **30**, 121-126. **corresponding author*

Melawani, O., **Ash'aari, Z.H.** and Mohamad, N.D. (2015) Long-term daily rainfall pattern recognition: Application of Principal component analysis. Procedia of Environmental Sciences, **30**, 127-132. **corresponding author*

Sharif, S.M., Kusin, F.M., **Asha'ari, Z.H.**, Aris, A.Z. (2015) Characterization of Water Quality Conditions in the Klang River Basin, Malaysia Using Self Organizing Map and K-means Algorithm. Procedia of Environmental Sciences, **30**, 73-78.

Akhir, N.I.M., Kusin, F.M., Mohamat-Yusuff, F., Awang, M., **Ash'aari, Z.H** (2015) Impact of nitrogen fertilizer application on nitrous oxide emission in oil palm plantation. Procedia of Environmental Sciences, **30**, 315-319.

Aburas, M.M., Abdullah, S.H., Ramli, M.F., **Ash'aari, Z.H.** (2015) Measuring Land Cover Change in Seremban, Malaysia Using NDVI Index. Procedia of Environmental Sciences, **30**, 238-243.

Asha'ari, Z.H. and Badrunsham, A.S. (2014) Spatial and temporal analysis of forest fire in Malaysia using ATSR satellite measurement. Bulletin of Environmental Science and Management (ISSN: 2289-5876). **corresponding author*

Books/Monographs

Faradiella Mohd Kusin, Wan Lutfi Wan Johari, Khairul Nizam Mohamed, **Zulfa Hanan Ash'aari**. Water quality and waste management. Penerbit UPM. ISBN 978-967-344-324-6.

G. PENERBITAN TERPILIH <i>Selected Journals</i>	
<i>Chapter in book</i>	Ash'aari, Z.H. , Bigg, G.R. and Bryant, R.G. (2014) Patterns of Aerosol Over Malaysia from Multiple Satellite-Borne Sensors. In Aris, AZ., Tengku Ismail, T.H., Harun, R., Abdullah, A.M. & Ishak, M.Y. (eds). From Sources to Solution Proceedings of the International Conference on Environmental Forensics 2013. Springer.579-584 (SCOPUS). <i>*corresponding author</i>
<i>Proceedings</i>	<p>Abdullah, S., Che Cob, Z., Selamat, M.H and Ash'aari, Z.H. (2007) Applying Software Agents in Supporting knowledge transfer process. 2nd International Conference of Informatics. T5-12 – T5-17.</p> <p>Ash'aari, Z.H., Bigg, G.R. and Bryant, R.G. (2014) Patterns of Aerosol Over Malaysia from Multiple Satellite-Borne Sensors. Proceedings of The International Conference on Environmental Forensics 2013.</p> <p>Othman, M., Ash'aari, Z.H., et al. (2016) Assessment of drought impacts on Vegetation Health: A Case study in Kedah. 8th IGRSM Conference and Exhibition on Remote Sensing &GIS.</p> <p>Muharam, F.M., Ash'aari, Z.H., Zaudi, M.A., Kamarulzaman, N.H., Latif, I. (2016). Assessments of Agricultural land use change and flood event. Bengkel Kajian Bencana Banjir.</p>
<i>Other publications</i>	<p>Thesis</p> <ol style="list-style-type: none"> 1. Word Document Analyzer (2007). Universiti Putra Malaysia. 2. Aerosols, Forest fires and El-Nino: Air pollution issues in Malaysia (2013). The University of Sheffield.
<i>Computer software</i>	Word Document Analyzer (2007)

H. PROJEK PENYELIDIKAN TERDAHULU <i>(Past Research Project)</i>					
<i>Type of Grant</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
	Aerosols, Forest fires and El-Nino: Air pollution issues in Malaysia	Group Leader	2008-2012	Ministry of Higher Education (MOHE)	Completed
FRGS – special grant	Modeling two-way interaction between agricultural land use change and flood event by the integration of geospatial	Researcher	1 April 2015 – 31 Dec 2015	RM 82,500	Completed

	technologies and land use modeler				
GERAN PUTRA IPM	Detection of abandoned agricultural land using remote sensing	Researcher	September 2014 – September 2016	RM 50,000	Completed

I. PROJEK PENYELIDIKAN SEMASA <i>(Current Research Project)</i>					
<i>Type of Grant</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Amount</i>	<i>Status</i>
TRGS	Modelling Drinking Water Distribution System (DWDS) vulnerability to Active Pharmaceutical Ingredients (APIs) by integration of geospatial-hydraulic and water quality model	Principal Investigator	December 2016 – November 2019	RM 126,000	On-going
Geran Putra IPS	Impact Of Historical Land Cover Conversion By Oil Palm Plantation On Greenhouse Gas Emissions In Peninsular Malaysia: A Geospatial Technology Approach	Principal Investigator	December 2016 – December 2018	RM 18,000	On-going
FRGS	Drought-risk assessment and monitoring in Malaysia using remote sensing and GIS technique	Principal Investigator	July 2014 – June 2017	RM 100,000	On-going
GERAN PUTRA IPM	The development of Decision support system for urban air quality management in Malaysia through the application of GIS and space-borne remote sensing observations	Principal Investigator	November 2014 – April 2017	RM 50,000	On-going
FRGS	Effect of seasonal Northeast monsoon on phytoplankton bloom at Pulau Perhentian, Terengganu: In case of iron bioavailability	Researcher	Disember 2014 – November 2017	RM 98,000	On-going
GERAN PUTRA IPS	Analysis of urban Sprawl and its impact on green space using Entropy Approach and NDVI Index in the city of Seremban	Researcher	15 March 2015 – 15 March 2017	RM 15,000	On-going

FRGS	Remedial strategies and carbon capture potential of mining waste: Passive sequestration of atmospheric carbon from bauxite residue (red mud) deposits	Researcher	2 November 2015 – 1 November 2017	RM 105,000	On-going
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K. MAKLUMAT PENYELIAAN PELAJAR SISWAZAH

(Postgraduate Supervisory information)

<i>Student's name</i>	<i>Status</i>	<i>Level</i>	<i>Role</i>
Mohd. Muzammil Salahuddin	Graduated (2016)	Master of Science	Main Supervisor
Nur Diyana Mohamad	On-going	Master of Science	Main Supervisor
Melawani Othman	On-going	Master of Science	Main Supervisor
Nurul Hani Othman	New student	Master of Science	Main supervisor
Mohamad Al-Ekhwan Othman	New Student	Master of Science	Main Supervisor
Khaled Ali Ahmad Ben Youssef	On-going	Ph.D	Co-supervisor
Kaw Kar Mun	On-going	Ph.D	Co-supervisor
Rasheida Elawad Elhadi Elawad	On-going	Ph.D	Co-supervisor
Maher Aburas	On-going	Ph.D	Co-supervisor