



CURRICULUM VITAE

A. BUTIR-BUTIR PERIBADI (*Personal Details*)

Nama Penuh (<i>Full Name</i>)	Zufarzaana Zulkeflee		Gelaran (<i>Title</i>): - Dr.
No. MyKad / No. Pasport (<i>Mykad No. / Passport No.</i>)	Warganegara (<i>Citizenship</i>)	Bangsa (<i>Race</i>)	Jantina (<i>Gender</i>)
	Malaysian	Malay	Female
Jawatan (<i>Designation</i>)	Senior Lecturer	Tarikh Lahir (<i>Date of Birth</i>)	

Alamat Semasa (<i>Current Address</i>)	Jabatan/Fakulti (<i>Department/Faculty</i>)	E-mel dan URL (<i>E-mail Address and URL</i>)
	Jabatan Sains Alam Sekitar, Fakulti Pengajian Alam Sekitar, UPM	zufarzaana@upm.edu.my

B. KELAYAKAN AKADEMIK (*Academic Qualification*)

Nama Sijil / Kelayakan (<i>Certificate / Qualification obtained</i>)	Nama Sekolah Institusi (<i>Name of School / Institution</i>)	Tahun (<i>Year obtained</i>)	Bidang pengkhususan (<i>Area of Specialization</i>)
UPSR	Sek. Keb. Sri Subang Jaya	1998	-
PMR SPM	Sek. Men. Sains Kuala Selangor	2001 2003	Science
Matriculation	Kolej Matrikulasi Perak	2005	Biological Science
Bachelor Science	Universiti Putra Malaysia	2008	Environmental Science
Doctor of Philosophy	Universiti Putra Malaysia	2014	Environmental Hydrology & Hydrogeology (Water Treatment, Bioproduction)

C. KEMAHIRAN BAHASA (*Language Proficiency*)

Bahasa / <i>Language</i>	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English				√	
Bahasa Melayu					√
Japanese		√			
Spanish		√			

D. BIASISWA/KURNIAAN AKADEMIK (<i>scholarship/academic awards</i>)				
<i>Scholarship/Award</i>	<i>Awarding body</i>	<i>Start Date</i>	<i>End Date</i>	<i>Bond status</i>
Skim Latihan Akademik IPTA (SLAI)	Kementerian Pengajian Tinggi, Malaysia	1 JAN 2009	31 DEC 2011	5 Years With Govt. Of Malaysia
Cuti Belajar Bergaji Penuh UPM	Universiti Putra Malaysia	1 JAN 2009	20 JUN 2013	10 Years with UPM
Erasmus Mundus Action 2 Plan MAHEVA scholarship	European Commission	1 JAN 2012	30 JUN 2013	Non

E. KEAHLIAN PROFESIONAL				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
Society of Chemical Industry (SCI)	Member	2015	-	Biochemistry
The International Association of Hydrological Sciences	Member	2015	-	Water quality, discharge, water costing
Malaysian Water Partnership	Member	2015	-	Water quality, discharge, water costing
Persatuan Pegawai Akademik UPM	Member	2016	-	

F. TANGGUNGJAWAB PENGAJARAN DAN PENTADBIRAN SEMASA (<i>Current teaching and administrative responsibility</i>)				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Kursus yang diajar/ Course taught</i>	<i>Jam kredit kursus /Course credit hour</i>
Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences	Hazardous Waste Treatment Technology	3(3+0)
Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences	Industrial Ecology	3(3+0)
Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences	Principle of Environmental Health	3(2+1)
Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences	Environmental Bioremediation	3(2+1)
Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences	Environmental Biology	3(2+1)
Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences	Final Year Project	6(0+6)

Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences	Man and Environment	3(3+0)
Universiti Putra Malaysia	Tutor/ Assistant Lecturer	Department of Environmental Sciences	Principle of Environmental Chemistry	4(3+1)
Universiti Putra Malaysia	Tutor/ Assistant Lecturer	Department of Environmental Sciences	Advanced Environmental Chemistry	3(2+1)
Universiti Putra Malaysia	Tutor/ Assistant Lecturer	Department of Environmental Sciences	Environmental Techniques and Measurements	3(1+2)
Universiti Putra Malaysia	Tutor/ Assistant Lecturer	Department of Environmental Sciences	Final Year Project	6(0+6)
Universiti Putra Malaysia	Tutor/ Assistant Lecturer	Department of Environmental Sciences	Environmental Entrepreneurship	3(2+1)

G. PENGALAMAN KERJA

(Employment experience)

Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
Universiti Putra Malaysia	Senior Lecturer	Department of Environmental Sciences, Faculty of Environmental Studies, UPM	12 Feb 2015	Current
Universiti Putra Malaysia	Tutor	Department of Environmental Sciences, Faculty of Environmental Studies, UPM	13 Oct 2008	12 Feb 2015
Professional Environmental Services	Research Assistant	Faculty of Environmental Studies (FPAS), UPM	6 May 2008	12 Oct 2008
Centre for Environment, Technology, and Development Malaysia	Intern	NGO	May 2007	July 2007

H. PERSIDANGAN DAN LATIHAN

(conference and training)

Nama persidangan/latihan/ Name of conference/training	Peringkat/Level	Dikendalikan oleh/Organized by	Peranan/Role	Tahun/Year
Workshop and Hands-on Session on Ocean Data View Software	National	Ministry of Science, Technology and Innovation (MOSTI & UPM)	Participant	2016
International Conference on	International	Environmental Forensics Research	Publicity and IT	2015

Environmental Forensics		Centre, FPAS, UPM	committee/ Poster presenter	
Basic Teaching Course	University	CADE, UPM	Participant	2015
Mind Transformation Programme	University	UPM Registrar	Participant	2015
Climate Change and Water Dialogue	National	Centre for Environment, Technology, and Development Malaysia	Participant	2015
Workshop on Imbak Canyon Rainforest Research and Training Programme (ICR RTP)	National	Academy of Sciences Malaysia	Participant	2015
Scientific Writing Workshop	International	Bay of Bengal Large Marine Ecosystem (BOBLME), Department of Fisheries Malaysia and Universiti Sains Malaysia (USM)	Participant	2014
Scientific Presentation Workshop	International	Bay of Bengal Large Marine Ecosystem (BOBLME), Department of Fisheries Malaysia and Universiti Sains Malaysia (USM)	Participant	2014
Doctoral mobility under the Man, Health & Environment, Erasmus Mundus Action 2 Plan to Universitat Autònoma de Barcelona, Spain	International	European Commission	Researcher	2011-2013
International Conference on Environmental Forensics	International	Environmental Forensics Research Centre, FPAS, UPM	Assistant Secretary/ Paper presenter	2013
Higher Education Professional Training Program for Young Lecturers	National	Higher Education Leadership Academy (AKEPT)	Participant	2009
International Congress of Malaysian Society for Microbiology (ICMSM 2009)	International	Malaysian Society for Microbiology and Universiti Malaya	Participant and poster presenter	2009
Publishing for Postgraduate Workshop	University	School of Graduate Studies, UPM	Participant	2009

SPSS Statistical Package Workshop	University	School of Graduate Studies, UPM	Participant	2009
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I. i) PENGALAMAN PENYELIDIKAN (Research experience)					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
	Production of bioflocculant, biochelant and biosurfactant by microbes through solid-state fermentation of food waste for the treatment of suspended solids, heavy metals and organic pollutants in water	Leader	2017	FRGS	Rejected
TRGS/1/2016/UPM/02/6/1)	Trace Concentrations Determination of Active Pharmaceutical Ingredients (APIs) in Drinking Water system of Greater Kuala Lumpur and Klang Valley, Malaysia	Member	2016	TRGS	Ongoing
GP-IPM/2016/9499500	Evaluation of sediment trap efficiency enhancement with added bioflocculant through in-lab simulation	Leader	2016	PUTRA-IPM	Ongoing
	Development of a legal GIS-based database prototype for flood risk management in Malaysia	Member	2015-2017	FRGS	Completed
	Production of bioactive compounds through solid-state fermentation of household waste for bioremediation	Leader	2016	FRGS	Rejected
	Assessment of E-Cigarettes and Vape Emission Dynamics	Member	2015	PUTRA-IPB	Withdrawn
FRGS/1/2015/WAB05/UPM/02/6	Production of biochelant through submerged and solid-state fermentation of <i>Bacillus</i> spp. for heavy metals removal from water	Leader	2015	FRGS	Rejected
TRGS/1/2015/UPM/02/4/4	Assessment of spatial variability of metals in soil and water in degraded land of Lojing (Kelantan) affected by agronomic practices and conservation measures	Member	2015	TRGS	Rejected
FRGS/1/2015/WAB05/UPM/02/5	Growth conditions optimization of Tributyltin utilizing bacterial consortium at contaminated sites to establish in-situ bioremediation technique.	Member	2015	FRGS	Rejected
FRGS/1/2015/STWN01/UPM/02/14	Distribution and Potential Risk of PAHs, Heavy Metals and Faecal Coliform from Leaking Underground Storage Tanks at Flood Affected Area in Kota	Member	2015	FRGS	Rejected

	Bharu				
FRGS/1/10/ SG/UPM/02/ 10	Development of Novel Treatment Techniques for Suspended Solids Pollution by Using Biofloculant Produced by Bacteria : Potential Application in Sediment Traps	Researcher	2010-2012	FRGS	Completed
FRGS/FAS A1- 2007/05/10/ 07/368FR	Study on the Process and Mechanism of Microbial Activities in Enhancing River Water Quality using Agrobase Media	Research assistant	2007-2009	FRGS	Completed

ii) SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)

<p><i>Journals</i> Starting from year 2005 until now</p>	<p>Zufarzaana Zulkeflee, Ahmad Zaharin Aris, Zulkifli H. Shamsuddin, Mohd Kamil Yusoff, Dimitrios Komilis & Antoni Sánchez. (2016). Performance, yield and characteristics of biofloculants (UPMBF13) produced by <i>Bacillus subtilis</i> UPMB13 during submerged and solid-state fermentation. <i>Global Nest Journal</i>. 18 (3), 611-620.</p>
	<p>Zufarzaana Zulkeflee, Ahmad Zaharin Aris, Zulkifli H. Shamsuddin, Mohd Kamil Yusoff, Dimitrios Komilis & Antoni Sánchez. Glutamic Acid Independent Production of Biofloculants by <i>Bacillus subtilis</i> UPMB13. <i>Environmental Processes</i>. 3 (2), 353-367.</p>
	<p>Ai Ping Lim, Zufarzaana Zulkeflee & Ahmad Zaharin Aris. Effective removal of lead (II) ions by dead calcareous skeletons: Sorption performance and influencing factors. <i>Water Science & Technology</i>. 74 (7), 1577-1584.</p>
	<p>Zufarzaana Zulkeflee, Jinan Mohammad Pauzi, Mohd Kamil Yusoff & Nor Rohaizah Jamil. (2015). Cost of Water Acquisition from Forested Watershed. <i>Procedia Environmental Sciences</i>. 30 (2015), 338-343.</p>
	<p>Zufarzaana Zulkeflee & Antoni Sánchez. (2014). Solid-state fermentation of soybean residues for biofloculant production in a pilot-scale bioreactor system. <i>Water Science & Technology</i>. 70 (6), 1032-1039.</p>
	<p>Zufarzaana Zulkeflee, & Antoni Sánchez. (2014). Green Biotechnological Approach as an Alternative to Chemical Processes: The Case of Biofloculant Production through Solid-State Fermentation of Soybean Wastes. In A. Z. Aris, T. H. Tengku Ismail, R. Harun, A. M. Abdullah & M. Y. Ishak (Eds.), <i>From Sources to Solution</i> (pp. 175-179). Singapore: Springer-Verlag.</p>
	<p>Zufarzaana Zulkeflee, Ahmad Zaharin Aris, Zulkifli H. Shamsuddin, & Mohd Kamil Yusoff. (2012). Cation Dependence, pH Tolerance, and Dosage Requirement of a Biofloculant Produced by <i>Bacillus spp.</i> UPMB13: Flocculation Performance Optimization through Kaolin Assays. <i>The Scientific World</i></p>

	Journal. 2012: doi. 10.1100/2012/495659.
<i>Chapter in book</i>	<p>Mohd Kamil Yusoff, Zufarzaana Zulkeflee, Mohd Zamani Ismail, Shamsuddin Johan, Rosta Haron and Lailatun Najah Ozair. (2014). River Water Quality Status of Gunung Besar Hantu Forest Reserve, Jelebu. <i>In</i> Hutan Gunung Besar Hantu, Negeri Sembilan: Pengurusan Hutan, Persekitaran Fizikal dan Kepelbagaian Biologi: Jabatan Perhutanan Semenanjung Malaysia. pp 81-87.</p> <p>Zufarzaana Zulkeflee, Mohd Kamil Yusoff, Zulkifli H. Shamsuddin and Ahmad Zaharin Aris. (2010). Biofloculant Produced by <i>Bacillus sphaericus</i> UPMB10: Potential Application in Treatment of Suspended Solid Pollution. <i>In</i> Current Issues and Challenges of Environmental Quality Management in Malaysia. Selangor, Malaysia: Universiti Putra Malaysia Press.</p>

J. PERUNDINGAN (*consultation*)

<i>Nama Projek/Project title</i>	<i>Peringkat/Level</i>	<i>Klien/client</i>	<i>Peranan/Role</i>	<i>Tahun/Year</i>
Kajian Penghasilan Kuantiti dan Kos Air dari Kawasan Hutan Tadahan Air Negeri Selangor	State	Jabatan Perhutanan Negeri Selangor	Member	2014

K. KHIDMAT MASYARAKAT (*community services*)

<i>Nama Projek/Project title</i>	<i>Peringkat/Level</i>	<i>Komuniti/communtty</i>	<i>Peranan/Role</i>	<i>Tahun/Year</i>
Program Menjawab Soalan Aplikasi Sains UPSR di Sekolah Rendah Seri Pristana, Sg Buloh, Selangor	District	Sekolah Rendah Seri Pristana, Sg Buloh, Selangor	Member	2016
World Turtle Day	District	Kampung Pasir Gajah, Kemaman, Terengganu	Member	2016
Program Kesedaran Konservasi Tuntung Sungai Siri ke-2	District	Kampung Pasir Gajah, Kemaman, Terengganu	Member	2016

L. MAKLUMAT LAIN YANG BERKAITAN (*any other related information*)

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