

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI <i>(Personal Details)</i>			
Nama Penuh <i>(Full Name)</i>	NUR SHARMILA SHARIP		Gelaran <i>(Title)</i> : TS. DR.
No. MyKad / No. Pasport <i>(Mykad No. / Passport No.)</i> 900722-01-5508	Warganegara <i>(Citizenship)</i> MALAYSIA	Bangsa <i>(Race)</i> MELAYU	Jantina <i>(Gender)</i> MALAYSIA
Jawatan <i>(Designation)</i>	PENSYARAH KANAN	Tarikh Lahir <i>(Date of Birth)</i>	22 th JULY 1990

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
DEPARTMENT OF BIOPROCESS TECHNOLOGY, FACULTY OF BIOTECHNOLOGY AND BIOMOLECULAR SCIENCES, UNIVERSITI PUTRA MALAYSIA, Tel: 013-7439302		E-mail: nursharmila@upm.edu.my URL: http://biotech.upm.edu.my https://orcid.org/my-orcid?orcid=0000-0003-3322-9592

B. KELAYAKAN AKADEMIK <i>(Academic Qualification)</i>			
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>
PhD	Universiti Putra Malaysia	2022	Green Engineering
MSc	Universiti Putra Malaysia	2016	Environmental Biotechnology
Bachelor of Science	Universiti Putra Malaysia	2012	Biotechnology

C. KEMAHIRAN BAHASA <i>(Language Proficiency)</i>					
Bahasa / Language	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					√
Chinese					
Lain-lain <i>(other)</i> :					

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (<i>Scientific experience and Specialisation</i>)				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
Universiti Putra Malaysia	Pensyarah Kanan	May 2024	To date	Bioprocess Design, Bioentrepreneurship
Nexgreen Global Berhad	Eksekutif Kanan R&D	2022	2024	Pulp & Paper Technology, Biobased Product, Environmental Technology.
Universiti Putra Malaysia	Penyelidik Pasca Siswazah	2018	2022	Biocomposite Technology, Lignocellulose-based Products, Environmental Technology.
Kyushu Institute of Technology, Japan	Penyelidik Pasca Siswazah	2018	2019	Biocomposite Technology, Lignocellulose-based Products, Environmental Technology, Cell culture.
Halal Products Research Institute, Universiti Putra Malaysia	Pembantu Penyelidik	2017	2017	Protein profiling, Protein Extraction.
Universiti Putra Malaysia	Penyelidik Pasca Siswazah	2013	2016	Lignocellulose-based Products, Environmental Technology.

E. PEKERJAAN (<i>Employment</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	Pensyarah Kanan	Teknologi Bioproses	Mei 2024	To date
Nexgreen Global Berhad	Eksekutif Kanan Penyelidikan (R&D)	Research & Development	Jan 2022	April 2024
Institut Perhutanan Tropika Dan Produk Hutan, UPM	Penyelidik Pasca-Siswazah	Environmental Biotechnology Group	Feb 2018	Dec 2021
Institut Penyelidikan Produk Halal, Upm	Pembantu Penyelidik	Laboratori Penyelidikan Sains Halal (LAPSAH)	April 2017	September 2017
Fbsb, Upm	Penyelidik Pasca-Siswazah	Teknologi Bioproses	September 2012	October 2016

F. ANUGERAH DAN HADIAH (<i>Honours and Awards</i>)				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>	<i>Japan Student Services Organization (JASSO) Scholarship</i>	JICA, Japan	<i>Scholarship</i>	2019
	<i>Japan Student Services Organization (JASSO) Scholarship</i>	JICA, Japan	<i>Scholarship</i>	2018
	<i>Graduate Research</i>	UPM	<i>Fellowship</i>	2018

	<i>Fellowship Fund</i>			
	<i>MyBrain15 Scholarship</i>	MOHE, Malaysia	<i>Scholarship</i>	2013
	<i>Graduate Research Fellowship Fund</i>	UPM	<i>Fellowship</i>	2013
<i>Non-Academic Awards</i>	<i>Outstanding & Gold Innovation Award (Innovation title: Sustainable Food Packaging from Empty Fruit Bunches Cellulose Fibres)</i>	<i>Malaysia Technology Expo 2023</i>	<i>Research</i>	2023
	<i>Gold Innovation Award (Innovation title: Preconditioning Refiner Chemical-Recycle Bleached Mechanised Pulp Technology for Oil Palm Fibre-Pulp Production)</i>	<i>Malaysia Technology Expo 2023</i>	<i>Research</i>	2023
	<i>Gold Innovation Award (Innovation title: Green Technology Park: The Next Generation of Green)</i>	<i>Malaysia Technology Expo 2023</i>	<i>Research</i>	2023
	<i>Gold Award Five Minutes Thesis (5MT) Competition</i>	<i>IKRAM Academia</i>	<i>Competition</i>	2021
	<i>Silver Award Post-Graduate Poster Competition Open Day 2020.</i>	<i>INTROP UPM</i>	<i>Competition</i>	2020
	<i>Best Poster Award</i>	<i>8th International Symposium on Applied Engineering and Sciences</i>	<i>Conference</i>	2020
	<i>Silver Award UPM Three Minutes Thesis (3MT) Final Competition</i>	<i>UPM</i>	<i>Competition</i>	2019
	<i>Gold Award INTROP Three Minutes Thesis (3MT) Competition</i>	<i>INTROP, UPM</i>	<i>Competition</i>	2019
<i>Awards of Merit</i>	-	-	-	-

G. 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)*

<i>Journal</i>	<ol style="list-style-type: none"> Izan, N.L.M., Bahrin, E.K., Yusoff, M.Z.M., Simarani, K., Sharip, N.S., & Ariffin, H. (Under review). Sustainable utilisation of oil palm empty fruit bunch and <i>Perenniporia subtephropora</i> for eco-friendly mycelium-based biofoam. <i>Biocatalysis and Agricultural Biotechnology</i>. Lim, K.Y., Yasim-Anuar, T.A.T., Sharip, N.S., 2023. Green Phenolic Resins from Oil Palm Empty Fruit Bunch (EFB) Phenolated Lignin and Bio-Oil as
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	<p>Phenol Substitutes for Bonding Plywood. <i>Polymers</i>, 15(5), p.1258.</p> <ol style="list-style-type: none"> 3. Sharip, N.S., Tengku Yasim-Anuar, T., Ujang, F. and Faiz Norrrahim, M. (2023) Potato thermoplastic starch nanocomposite films reinforced with nanocellulose. <i>Physical Sciences Reviews</i>. 4. Sharip, N.S., Tengku Yasim-Anuar, T., Husin, H. and Norrrahim, M. (2023) Barley thermoplastic starch nanocomposite films reinforced with nanocellulose. <i>Physical Sciences Reviews</i>. 5. Norrrahim, M., Janudin, N., Asmal Rani, M., Jenol, M., Sharip, N.S., Nurazzi, N., Asyraf, M. and Ilyas, R. (2023) Wheat thermoplastic starch composite films reinforced with nanocellulose. <i>Physical Sciences Reviews</i>. 6. Sharip, N.S., Ariffin, H., Yasim-Anuar, T.A.T., Andou, Y., Shirosaki, Y., Jawaid, M., Tahir, P.M. & Ibrahim, N.A. (2021). Melt-vs. Non-Melt Blending of Complexly Processable Ultra-High Molecular Weight Polyethylene/Cellulose Nanofiber Bionanocomposite. <i>Polymers</i>, 13(3), p.404. 7. Sharip, N.S., Ariffin, H., Andou, Y., Bahrin, E.K., Jawaid, M., Tahir, P.M. & Ibrahim, N.A. (2020). Parameters Optimization in Compression Molding of Ultra-high Molecular Weight Polyethylene/Cellulose Nanofiber Bio-nanocomposites by using Response Surface Methodology. <i>Pertanika Journal of Science and Technology</i>, 28, p.299 – 316. 8. Yasim-Anuar, T.A.T., Sharip, N.S., Noor, L., Megashah, H.A. & Nor, N.A.M. (2020). Cellulose Nanofibers from Waste Paper and their Utilization as Reinforcement Materials in Poly ((R)-3-Hydroxybutyrate-co-(R)-3-Hydroxyhexanoate Bionanocomposite. <i>Pertanika Journal of Science and Technology</i>, 28, pp.259-272. 9. Sharip, N.S., Ariffin, H., Andou, Y., Shirosaki, Y., Bahrin, E.K., Jawaid, M., Tahir, P.M. & Ibrahim, N.A. (2020). Process Optimization of Ultra-High Molecular Weight Polyethylene/Cellulose Nanofiber Bionanocomposites in Triple Screw Kneading Extruder by Response Surface Methodology. <i>Molecules</i>, 25(19), p.4498. 10. Sharip, N.S. & Ariffin, H. (2019). Cellulose nanofibrils for biomaterial applications. <i>Materials Today: Proceedings</i>, 16, pp.1959-1968. 11. Sharip, N.S., Ariffin, H., Hassan, M.A., Nishida, H. & Shirai, Y. (2016). Characterization and application of bioactive compounds in oil palm mesocarp fiber superheated steam condensate as an antifungal agent. <i>RSC advances</i>, 6(88), pp.84672-84683.
Books/Monographs	
Chapter in book	<ol style="list-style-type: none"> 1. Yasim-Anuar, T. A. T., Ariffin, H., Padzil, F. N. M., Sharip, N.S., Yee-Foong, L. N., Shazleen, S. S., Megashah, L.N., Abd-Rahim, N.F. & Hassan, M. A. (2022). Nanocellulose applications in packaging materials. In <i>Industrial Applications of Nanocellulose and Its Nanocomposites</i> (pp. 289-310). Woodhead Publishing. 2. Shamsudin, S., Bahrin, E. K., Jenol, M. A., & Sharip, N.S. (2022). Characteristics and Potential of Renewable Bioresources. In <i>Renewable Energy from Bio-resources in Malaysia</i> (pp. 21-43). Springer, Singapore. 3. Norrrahim, M.N.F., Sapuan, S.M., Yasim-Anuar, T.A.T., Padzil, F.N.M., Sharip, N.S., Ng, L.Y.F., Megashah, L.N., Shazleen, S.S., Rahim, N.F.A., Syafiq, R. & Ilyas, R.A. (2020). Antimicrobial Studies on Food Packaging Materials. In <i>Food Packaging</i>, pp.141-170. 4. Sharip, N.S., Yasim-Anuar, T.A.T., Norrrahim, M.N.F., Shazleen, S.S., Nurazzi, N.M., Sapuan, S.M. & Ilyas, R.A. (2020). A review on nanocellulose composites in biomedical application. In <i>Composites in Biomedical Applications</i> (pp. 161-190). CRC Press. 5. Sharip, N.S. & Ariffin, H. (2019). Polymeric Composites for Joint Replacement. In <i>Nanostructured Polymer Composites for Biomedical Applications</i> (pp. 385-404). Elsevier.

Proceedings	<ol style="list-style-type: none"> 1. Sharip, N.S., Ariffin, H., Andou, & Y., Shirotsaki (2021). Improved mechanical-tribological properties of ultra-high molecular weight polyethylene by the incorporation of cellulose nanofibrils via melt-blending. In <i>TAPPI Nano 2021 Virtual Conference</i>. 2. Sharip, N.S., Ariffin, H., Andou, Y., Shirotsaki, Y., Jawaid, M, Tahir, P.M., & Ibrahim, N.A. (2020). Improved mechanical-tribological properties and cytocompatibility evaluation of ultra-high molecular weight polyethylene/cellulose nanofiber bionanocomposites. In <i>8th International Symposium on Applied Engineering and Sciences</i> (Online Symposium). 3. Sharip, N.S., Ariffin, H., Tahir, P.M., Jawaid, M., Ibrahim, N.A., & Andou, Y (2019). Effect of temperature, speed, and duration on filler dispersion and mechanical properties of ultra-high molecular weight polyethylene (UHMWPE)/Cellulose Nanofiber (CNF) Biocomposite Fabrication. In <i>Wood and Biofibre International Conference</i>, Kota Kinabalu, Malaysia. 4. Sharip, N.S., Ariffin, H., Yasim-Anuar, T.A.T., Tahir, P.M., Jawaid, M, Ibrahim, N.A., Shirotsaki, Y. & Andou, Y. (2019). Effect of Preparation Method on the Ultra-high Molecular Weight / Cellulose Nanofiber Nanocomposites Mechanical Properties. In <i>7th International Symposium on Applied Engineering and Sciences</i>, Serdang, Malaysia. 5. Sharip, N.S., Ariffin, H., Andou, Y., Bahrin, E.K. & Jawaid, M. (2019). Effect of temperature, speed, and duration on filler dispersion and mechanical properties of ultra-high molecular weight polyethylene (UHMWPE) / Cellulose Nanofiber (CNF) Biocomposite Fabrication. In <i>11th International Conference on the Science and Technology for Advanced Ceramics</i>, Tsukuba, Japan. 6. Sharip, N.S. & Ariffin, H. (2017). Cellulose nanofibrils for biomaterial applications. In <i>Conference on Biomedical and Advances Materials</i>, Langkawi, Malaysia. 7. Sharip, N.S., Ariffin, H., Hassan, M.A. & Shirai, Y. (2015). Potential use of superheated steam condensate from oil palm mesocarp fiber as antimicrobial agent. In <i>Asian Congress on Biotechnology</i>, Kuala Lumpur, Malaysia. 8. Sharip, N.S., Ariffin, H., Hassan, M.A. & Shirai, Y. (2014). Antifungal Properties of Oil Palm MesocarpFiber Superheated Steam Condensate. In <i>2nd International Symposium on Applied Engineering and Sciences</i>, Fukuoka, Japan. 9. Sharip, N.S., Ariffin, H., Hassan, M.A. & Shirai, Y. (2014). Effect of steam hydrolysis reaction temperature on the composition of oil palm mesocarp fiber condensate. In <i>Asian Federation of Biotechnology (AFOB) Regional Symposium</i>, Kuala Lumpur, Malaysia.
Other publications	-
Computer software	-

H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)					
Project No.	Project Title	Role	Year	Source of fund	Status
	Additive Optimization of Sustainable Food Packaging Material from Oil Palm Empty Fruit Bunch (EFB)	Researcher	2023	Nextgreen Global Berhad	Completed
	Coating Optimization of Sustainable Food Packaging Material from Oil Palm Empty Fruit Bunch (EFB)	Researcher	2023	Nextgreen Global Berhad	Completed
	Biodegradation Evaluation of Sustainable Food Packaging Material from Oil Palm EFB	Researcher	2023-2024	Nextgreen Global Berhad	Completed

	Lignin Extraction and Recovery from Pulping Liquor	Researcher	2023-2024	Nextgreen Global Berhad	Completed
	Green Technology for Optimum Paper Pulp Production from EFB and Kenaf	Co-Researcher	2021-2023	Nextgreen Global Berhad	Completed
	Sustainable Food Packaging Material from Oil Palm EFB Cellulosic Fibre Extracted Using Hybrid Chemical-Mechanical-Thermal Process	Co-Researcher	2018-2022	Nextgreen Global Berhad	Completed
	Utilization of EFB Boiler Ash as Soil Conditioner for Marigold & Bok Choy Planting	Researcher	2022	Nextgreen Global Berhad	Completed
	Treatment of Discharged Water from Boiler Wet Scrubber using Activated Carbon	Co-Researcher	2022	Nextgreen Global Berhad	Completed
	Effects of Residual Lignin in Oil Palm EFB Cellulose Nanofiber on Dispersion, Mechanical and Thermal Properties of Polypropylene-Based Bionanocomposite	Co-Researcher	2021	UPM	Completed
	Biodegradation of Nanocellulose Incorporated Biopolymer (Undergraduate Final Year Project - FYP)	Co-Supervisor	2021	UPM	Completed
	Development of Ultra-high Molecular Weight Polyethylene /Cellulose Nanofiber Bionanocomposites for Tibial Inserts Application	Post Graduate Researcher	2018-2021	UPM	Completed
	Cellulose Nanofibrils as Alternative Rheology Modifier for Alcohol-Based Hand Sanitizer (Undergraduate FYP)	Co-Supervisor	2020	UPM	Completed
	Profiling of Polypeptide via LCMS/MS	Research Assistant	2017	MyHAC, JAKIM	Completed
	Physical and Chemical Characterization of Oil Palm Trunk Sap and Core Fibre from Veneer and Plywood Factory (Undergraduate FYP)	Co-Supervisor	2016	UPM	Completed
	Batch Cultivation of <i>Cupriavidus necator</i> KCTC 2649 Utilizing Oil Palm Trunk Sap in a 2 Liter Bioreactor for the Production of Poly(3-	Co-Supervisor	2016	UPM	Completed

	Hydroxybutyrate) (Undergraduate FYP)				
	The Effect of Inoculum Concentration on Poly(3-Hydroxybutyrate) Production from <i>Cupriavidus necator</i> KCTC 2649 Utilizing Oil Palm Trunk Sap (Undergraduate FYP)	Co-Supervisor	2016	UPM	Completed
	Evaluation of Process Integration for Scaling Up of Biocrotonic Acid Production (Undergraduate FYP)	Co-Supervisor	2016	UPM	Completed
	Characterization and Antifungal Properties of Oil Palm Mesocarp Fiber (Part of project sponsored by Japan International Cooperation Agency, JICA)	Post Graduate Researcher	2013-2016	JICA (SATREPS)	Completed
	Production of lipase by using immobilized cell of <i>Burkholderia cenocepaciae</i> .	Under-graduate Researcher (FYP)	2012	UPM	Completed