

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI (Personal Details)			
Nama Penuh (Full Name)	Christopher Teh Boon Sung		Gelaran (Title): Dr.
No. MyKad / No. Pasport (Mykad No. / Passport No.)	Warganegara (Citizenship) Malaysia	Bangsa (Race) Chinese	Jantina (Gender) Male
Jawatan (Designation) Senior Lecturer		Tarikh Lahir (Date of Birth) 21 December 1970	

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
Tel: -	Dept. Land Management Fac. Of Agriculture Uni. Putra Malaysia 43400 Serdang, Selangor Tel: 03-89484858 Fax: 03-89408316	E-mail: cbsteh@yahoo.com URL: www.christopherteh.com

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)
PhD. in Agriculture	The Uni. Of Reading, UK	2001	Crop modelling
M. Agr. Sc.	Uni. Pertanian Malaysia	1996	Soil physics
B. Agr. Sc.	Uni. Pertanian Malaysia	1994	Agriculture

C. KEMAHIRAN BAHASA (<i>Language Proficiency</i>)					
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					X
Bahasa Melayu					X
Chinese		X			
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>

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>
Uni. Putra Malaysia	Senior Lecturer	Dept. Land Management	8 May 2001	present

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>	• Excellent Service Award (Anugerah Perkhimatan Cemerlang). 2014. Awarded by Uni. Putra Malaysia	UPM	Certificate & cash	2014
	• First place award in the Pertandingan Amalan Inovasi Pengajaran dan Pembelajaran Terbaik (Fakulti/Pusat) 2016 (Competition on the Best Practice of Teaching and Learning Innovation (Faculty/Centre) 2016). 7 Nov. 2016. Awarded by Uni. Putra Malaysia.	Uni. Putra Malaysia	First place	2016
	• Bronze medal award for teaching	Uni. Putra Malaysia	Bronze medal	2011

<p>excellence 2011. Anugerah Pengajaran Putra 2011, Uni. Putra Malaysia. Awarded in 2012.</p> <ul style="list-style-type: none"> • Best poster award. 2011. "Induction of Al³⁺ and H⁺ toxicities of oil palm (<i>Elaeis guineensis</i>) seedlings and their effects on photosynthesis and nutrient uptake". SOILS2011 Conference. 19-21 April 2011, Kota Kinabalu, Sabah. • Best poster award. 2009. "Effects of different soil conservation practices on soil chemical properties in a sloping land oil palm plantation". MSPPC 2009. 20th Malaysian Society of Plant Physiology Conference. Port Dickson. 24-26 July 2009 • Excellent Service Award (Anugerah Perkhimatan Cemerlang). 2005. Awarded by Uni. Putra Malaysia. • Excellent Service Certificate (Sijil Perkhimatan Cemerlang). 2001, 2002, 2003, 2004, 2005, 2006, and 2011. Awarded by Uni. Putra Malaysia. • Bronze medal for research. 2003. "The inoculation effects of 	<p>Malysian Socieity of Soil Science</p>	<p>Best poster</p>	<p>2011</p>
	<p>Malaysian Society of Plant Physiology</p>	<p>Best poster</p>	<p>2009</p>
	<p>Uni. Putra Malaysia</p>	<p>Certificate and cash</p>	<p>2005</p>
	<p>Uni. Putra Malaysia</p>	<p>Certificate</p>	<p>2001-2006 & 2011</p>
	<p>Uni. Putra Malaysia</p>	<p>Bronze medal</p>	<p>2003</p>

	<p>Azospirillum and Mycorrhiza on the growth and canopy architecture of maize (<i>Zea mays</i> L.)". Pameran Rekacipta dan Penyelidikan Uni. Putra Malaysia. 8-10 July 2003.</p> <ul style="list-style-type: none"> • Best poster award. 2003. "Modelling the dynamics of growth and yield in an immature-rubber, banana and pineapple intercropping system". SOILS 2003 Soil Science Conference of Malaysia at Kota Bharu, 15-16 April 2003. • Best poster award 2002. "Modelling the partitioning of solar radiation capture and evapotranspiration in intercropping systems". SOILS 2002 Soil Science Conference of Malaysia at Perlis, 23-24 April 2002. 	<p>Malaysian Society of Soil Science</p>	<p>Best poster</p>	<p>2003</p>
		<p>Malaysian Society of Soil Science</p>	<p>Best poster</p>	<p>2002</p>
<i>Non-Academic Awards</i>				
<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>	<p>Cited Journals:</p> <ol style="list-style-type: none"> 1. AHMADZADEH ARAJI, H., WAYAYOK, A., MASSAH BAVANI, A., AMIRI, E., FIKRI ABDULLAH A., DANESHIAN, J. & TEH, C.B.S. 2018. Impacts of climate change on soybean production under different treatments of field experiments considering the uncertainty of general circulation models. <i>Agricultural Water Management</i>, 205: 63-71. 2. TEH, C.B.S. 2018. Development and validation of an
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	<p>unsaturated soil water flow model for oil palm. <i>Pertanika Journal of Tropical Agriculture</i>, 41: 773-786.</p> <p>3. NABAYI A., TEH, C.B.S., HUSNI, M.H.A. & SULAIMAN, Z. 2018. Plant growth, nutrient content, and water use of rubber (<i>Hevea brasiliensis</i>) seedlings grown using root trainers and under different irrigation systems. <i>Pertanika Journal of Tropical Agriculture</i>, 41: 251-270.</p> <p>4. CHONG, S.Y., TEH, C.B.S., AINUDDIN, A.N. & PHILIP, E. 2018. Simple net rainfall partitioning equations for nearly full to full canopy stands. <i>Pertanika Journal of Tropical Agriculture</i>, 41: 81-100.</p> <p>5. VIJANDRAN J.R., HUSNI, M.H.A., TEH, C.B.S., ZAHARAH, A.R. & XAVIAR, A. 2017. Nutrient losses through runoff from several types of fertilisers under mature oil palm. <i>Malaysian Journal of Soil Science</i>, 21: 113-121.</p> <p>6. KAMARUDIN, N.K., THE, C.B.S. & HAWA JAAFAR, Z.E. 2016. Simultaneous effects of water and nitrogen stress on the vegetative and yield parameters of choy sum (<i>Brassica chinensis</i> var. <i>parachinensis</i>). <i>Pertanika Journal of Tropical Agriculture</i>. 39: 101-116.</p> <p>7. MORAI, A., TEH, C.B.S., GOH, K.J., HUSNI, M.H.A. & FAUZIAH, C.I. 2015. Effect of four soil and water conservation practices on soil physical processes in a non-terraced oil palm plantation. <i>Soil and Tillage Research</i>, 145: 62-71.</p> <p>8. KAMARUDIN, N.K., C.B.S. TEH & HAWA JAAFAR, Z.E. 2014. Modelling the growth and yield of choy sum (<i>Brassica chinensis</i> var. <i>parachinensis</i>) to include the effects of nitrogen and water stress. <i>Malaysian Journal of Soil Science</i>, 18:1-17.</p> <p>9. LUBIS, M.E.S., HARAHA, I.Y., HIDAYAT, T.C., PANGARIBUAN, Y., SUTARTA, E.S., ZAHARAH, A.R., TEH, C.B.S. & HANAFI, M.M. 2014. Stable oxygen and deuterium isotope techniques to identify plant water sources. <i>Journal of Water Resource and Protection</i>, 6: 1501-1508.</p> <p>10. LUBIS, M.E.S., HARAHA, I.Y., HIDAYAT, T.C., PANGARIBUAN, Y., SUTARTA, E.S., ZAHARAH, A.R., TEH, C.B.S. & HANAFI, M.M. 2014. Changes in water table depth in an oil palm plantation and its surrounding regions in Sumatra, Indonesia. <i>Journal of Agronomy</i>, 13:140-146.</p> <p>11. MEMARIAN, H., BALASUNDRAM, S.K., ABBASPOUR, K.C. TALIB, J., TEH, C.B.S. & SOOD, A.M. 2014. Integration of analytic hierarchy process and weighted goal programming for land use optimization at the watershed scale. <i>Turkish Journal of Engineering & Environmental Sciences</i>, 38: 1-20.</p> <p>12. MEMARIAN, H., BALASUNDRAM, S.K., ABBASPOUR, K.C. TALIB, J., TEH, C.B.S. & SOOD, A.M. 2014. SWAT-based hydrological modelling of tropical land-use scenarios. <i>Hydrological Sciences Journal</i>, 59: 1808-1829.</p> <p>13. BOHLULI, M., TEH, C.B.S., HUSNI, M.H.A., ZAHARAH, A.R. 2014. Silt pit efficiency in conserving soil water as</p>
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	<p>simulated by HYDRUS 2D model. <i>Pertanika Journal of Tropical Agriculture</i>. 37: 317-326.</p> <p>14. MOHAMED ABDULRAHMAN, M, SHAMSHUDDIN, J., TEH, C.B.S. & PUTERI EDAROYATI, M.W. & PANHWAR, Q.A. 2014. Influence of NPK fertilizer rates and irrigation frequencies on the biomass and yield components of sweet corn (<i>Zea mays L.</i>). <i>Journal of Food, Agriculture & Environment</i>, 12: 1308-1313.</p> <p>15. MOHAMED, A.M, SHAMSHUDDIN, J., TEH, C.B.S. & PUTERI EDAROYATI, M.W. & QURBAN, A.P. 2014. Effects of drip irrigation frequency, fertilizer sources and their interaction on the dry matter and yield components of sweet corn. <i>Australian Journal of Crop Science</i>, 8: 223-231.</p> <p>16. MORAI, A., TEH, C.B.S., GOH, K.J., HUSNI, M.H.A. & FAUZIAH, C.I. 2014. Decomposition and nutrient release temporal pattern of oil palm residues. <i>Annals of Applied Biology</i>, 164: 208-219.</p> <p>17. MEMARIAN, H., BALASUNDRAM, S.K., TALIB, J., TEH, C.B.S., ALIAS, M.S. & ABBASPOUR, K.C. 2013. KINEROS2 application for LUCC impact analysis at the Hulu Langat Basin, Malaysia, <i>Water and Environment Journal</i>, 27: 549-560.</p> <p>18. LEE, Y.P., TEH, C.B.S., GOH, K.J. & MORAI, A. 2012. Effects of four soil conservation methods on soil aggregate stability. <i>Malaysian Journal of Soil Science</i>, 16: 43-56.</p> <p>19. MEMARIAN, H., S.K. BALASUNDRAM, J. TALIB, C.B.S. TEH, M.S. ALIAS & K.C. ABBASPOUR. 2012. Validation of CA-Markov for simulation of land use and cover change. <i>Journal of Geographic Information System</i>, 4: 542-554.</p> <p>20. MORAI, A., TEH, C.B.S., GOH, K.J., HUSNI, M.H.A. & FAUZIAH, C.I. 2012. Evaluation of four soil conservation practices in a nonterraced oil palm plantation. <i>Agronomy Journal</i>, 104: 1727-1740.</p> <p>21. SHAHRIVAR, A. & TEH, C.B.S. M. 2012. The effects of soil physical characteristics on gully erosion development in Kohgiluyeh & Boyer Ahmad Province, Iran. <i>Advances in Environmental Biology</i>, 6: 367-405.</p> <p>22. SHAHRIVAR, A., TEH, C.B.S., SHAMSHUDDIN, J., ANUAR, A.R. & SOUFI, M. 2012. Roles of SAR and EC in Gully Erosion Development (A Case Study of Kohgiloye va Boyerahmad Province, Iran). <i>Journal of Research in Agricultural Science</i>. 8: 1-12.</p> <p>23. TEH, C.B.S. 2012. Using factor analysis to distinguish between effective and ineffective aggregate stability indices. <i>Pertanika Journal of Tropical Agriculture</i>. 35: 521-536.</p> <p>24. TEH, C.B.S. & WHEELER, T.R. 2012. Design of an object-oriented framework for modelling the partitioning of captured solar radiation and evapotranspiration in intercropping systems. <i>Pertanika Journal of Tropical Agriculture</i>. 35: 319-337.</p> <p>25. MEMARIAN, H., BALASUNDRAM, S.K., TALIB, J.B., TEH,</p>
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	<p>C.B.S., ALIAS, M.S., ABBASPOUR, K.C. & HAGHIZADEH, A. 2012. Hydrologic analysis of a tropical watershed using KINEROS2. <i>EnvironmentAsia</i>. 5: 84-93.</p> <p>26. TEH, C.B.S. 2012. Aggregate stability of tropical soils in relation to their organic matter constituent and other soil properties. <i>Pertanika Journal of Tropical Agriculture</i>. 35: 135 - 148.</p> <p>27. TEH, C.B.S. 2012. The stability of individual macroaggregate size fractions of Ultisol and Oxisol soils. <i>Journal of Agricultural Science and Technology</i>. 14: 459-466.</p> <p>28. MOKHTARPOUR, H., TEH, C.B.S., SALEH, G., SELAMAT, A.B., ASADI, M.E. & KAMKAR, B. 2011. Corn yield response to crowding stress and cropping season. <i>Archives of Agronomy and Soil Science</i>, 57:853-871.</p> <p>29. TEH, C.B.S., GOH, K.J., LAW, C.C. & SEAH, T.S. 2011. Short-term changes in the soil physical and chemical properties due to different soil and water conservation practices in a sloping land oil palm estate. <i>Pertanika Journal of Tropical Agriculture</i>. 34: 41-62.</p> <p>30. MOKHTARPOUR, H., TEH, C.B.S., SALEH, G., SELAMAT, A.B., ASADI, M.E. & KAMKAR, B. 2010. Non-destructive estimation of maize leaf area, fresh weight, and dry weight using leaf length and leaf width. <i>Communications in Biometry and Crop Science</i>, 5: 19–26.</p> <p>31. TEH, C.B.S. & IBA, J. 2010. Accuracy of the Saxton-Rawls method to estimate the soil water characteristics for minerals soils of Malaysia. <i>Pertanika Journal of Tropical Agriculture</i>. 33: 297-302.</p> <p>32. TEH, C.B.S., GOH, K.J. & KAMARUDIN, K.N. 2010. Physical changes to oil palm Empty Fruit Bunches (EFB) and EFB mat (Ecomat) during their decomposition in the field. <i>Pertanika Journal of Tropical Agriculture</i>. 33: 39-44.</p> <p>33. JALLOH, M.B., WAN SULAIMAN, W.H., JAMAL, T., RAMLAN, M.D., RAJAN, A., TEH, C.B.S. & OSUMANU, H.A. 2009. A simulation model estimates of the intercropping advantage of an immature-rubber, banana and pineapple system. <i>American Journal of Agricultural and Biological Sciences</i> 4: 249-254.</p> <p>34. SUSWANTO, T., SHAMSHUDDIN, J., SYED OMAR, S.R. & TEH, C.B.S. 2007. Effects of lime and fertiliser application in combination with water management on rice (<i>Oryza sativa</i>) cultivated on an acid sulphate soil. <i>Malaysian Journal of Soil Science</i>, 11: 1-16.</p> <p>35. TEH, C.B.S., JAMAL, T. & NURANINA, S. 2005. Aggregate breakdown rates of some Malaysian soils and their relation to several aggregate properties. <i>Malaysian Journal of Soil Science</i>, 9: 1-13.</p> <p>36. BOCKARI-GEVAO, S.M., WAN ISHAK W.I., AZMI, Y. & TEH, C.B.S. 2005. Soil tilth index for Malaysian paddy fields.</p>
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- Malaysian Journal of Soil Science, 9: 53-63.
37. TEH, C.B.S. 2003. 3-D direct solar radiation regime of maize (*Zea mays* L.). Malaysian Journal of Soil Science. 7: 17-27.
 38. TEH, C.B.S. & RASHID, M.A. 2003. Object-oriented code to lookup soil texture classes based on any soil classification scheme. Communications in Soil and Plant Analysis. 34: 1-11.
 39. TEH, C.B.S., SIMMONDS, L.P. & WHEELER, T.R. 2002. Modelling the partitioning of evapotranspiration in a maize-sunflower intercrop. Malaysian Journal of Soil Science, 6: 27-41.
 40. PONNIAH, P. & TEH, C.B.S. 2002. Modelling the distribution of water-stable aggregates. Malaysian Journal of Soil Science, 6: 65-73.
 41. TEH, C.B.S., SIMMONDS, L.P. & WHEELER, T.R. 2000. An equation for irregular distributions of leaf azimuth density. Agricultural and Forest Meteorology. 102: 223-234.
 42. CHRISTOPHER, T.B.S., MOKHTARUDDIN, A.M., HUSNI, M.H.A. & ABDULLAH, M.Y. 1998. A simple equation to determine the breakdown of individual aggregate size fractions in the wet-sieving method. Soil & Tillage Research. 45: 287-297.
 43. CHRISTOPHER, T.B.S. & MOKHTARUDDIN, A.M. 1996. A computer program to determine the soil textural class in 1-2-3 for Windows and EXCEL. Communications in Soil Science and Plant Analysis. 27: 2315-2319.

Non-citation-indexed Journals

1. Teh, C.B.S. 2016. Availability, use, and removal of oil palm biomass in Indonesia. Working Paper. International Council on Clean Transportation.
2. TEH, C.B.S. 2011. Overcoming Microsoft Excel's weaknesses for crop model building and simulations. Journal of Natural Resources and Life Sciences Education, 40: 122-136.
3. SUSWANTO, T., SHAMSHUDDIN, J., SYED OMAR, S.R. PELI MAT & TEH, C.B.S. 2007. Alleviating an acid sulphate soil cultivated to rice (*Oryza sativa*) using ground magnesium limestone and organic fertilizer. Journal of Soil and Environment, 9: 1-9.
4. TEH, C.B.S., HENSON, I., GOH, K.J. & HUSNI, M.H.A. 2006. The effect of leaf shape on the interception of solar radiation. Journal of Tropical Plant Physiology, 1: 12-26.
5. BOCKARI-GEVAO, S.M., WAN ISHAK W.I., AZMI, Y. & TEH, C.B.S. 2006. A modified soil tilth index and its relationship with rice yield. ScienceAsia, 32: 25-30.
6. SUSWANTO, T., SHAMSHUDDIN, J., SYED OMAR, S.R., TEH, C.B.S. & PELI MAT. 2005. A decision support system for rice cultivation on acid sulfate soils in Malaysia. Journal of Soil and Environment, 7: 1-5.
7. BOCKARI-GEVAO, S.M., WAN ISHAK WAN ISMAIL, YAHYA, AZMI, CHRISTOPHER, T.B.S. & CHAN. C.W. 2004. Tillage effects on several soil physical properties and crop

	yield in a Malaysian paddy field. Journal of the Agricultural Engineering Society of Sri Lanka, 8: 31-39.
<i>Books/Monographs</i>	<ol style="list-style-type: none"> 1. TEH, C.B.S. 2018. PRT4302: Agroiklim. Universiti Putra Malaysia, Serdang. 2. TEH, C.B.S. 2017. Modeling soil water flow in Python and Excel. Universiti Putra Malaysia, Serdang. 3. TEH, C.B.S. 2015. Building mathematical models in Excel: A guide for agriculturists. Universal Publishers, Boca Raton, Florida. 4. TEH, C.B.S. 2006. Introduction to mathematical modeling of crop growth: How the equations are derived and assembled into a computer program. BrownWalker Press, Boca Raton, Florida, U.S. 5. TEH, C.B.S. & JAMAL, T. 2006. Soil physics analyses. Vol. 1. Universiti Putra Malaysia, Serdang. 6. TEH, C.B.S. (Chief Editor), AHMED, O.H., FAUZIAH, C.I., IZHAM, A., WAN NOORDIN, W.D. & ZAKARIA, Z.Z. 2005. SOILS 2005: Advances in soil science for sustainable food production. Proceedings of the Malaysian Society of Soil Science 2005.
<i>Chapter in book</i>	<ol style="list-style-type: none"> 1. TEH, C.B.S. & CHEAH, S.S. 2018. Modelling crop growth and yield in palm oil cultivation. In: Rival, A. (Ed.) Achieving sustainable cultivation of oil palm. Vol. 1. Burleigh Dodds Science Publishing: Cambridge, UK. pp. 183-227. 2. TEH, C.B.S., FAUZIAH, C.I., ROSAZLIN, A., RADZIAH, O., QURBAN, A.P. & MD. MANIRUZZAMAN, A.A. 2018. Soil properties (physical, chemical, biological, mechanical). In: Ashraf, M.A. Radziah, O., Fauziah, C.I. (Eds.). Soils of Malaysia. CRC Press: Boca Raton, pp. 103-154. 3. BOHLULI, M., TEH, C.B.S., HUSNI, M.H.A. AND ZAHARAH, A.R. 2015. Review on the use of silt pits (contour trenches) as a soil and water conservation. In: Hamdan J. & Shamshudin, J. (Eds.). Advances in Tropical Soil Science. Vol. 3. Universiti Putra Malaysia, Serdang, pp. 63-80. 4. BAH, A. HUSNI, M.H.A., TEH, C.B.S. & RAFII, M.Y. 2013. Response of Corn (<i>Zea mays</i>) to conventional and controlled-release fertilizers applications. In: Hamdan J. & Shamshudin, J. (Eds.). Advances in Tropical Soil Science. Vol. 2. Universiti Putra Malaysia, Serdang, pp. 70-82. 5. LEE, Y.P., GOH, K.J. AND TEH, C.B.S. 2013. Effects of various acidity levels on the growth of oil palm seedlings and their nutrients uptake. In: Hamdan J. & Shamshudin, J. (Eds.). Advances in Tropical Soil Science. Vol. 2. Universiti Putra Malaysia, Serdang, pp. 55-69. 6. MORAI, A., TEH, C.B.S., GOH, K.J., HUSNI, M.H.A. & FAUZIAH, C.I. 2013. Soil organic C sequestration due to different oil palm residue mulches. In: Hamdan J. &

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<i>Other publications</i>	<p>Articles</p> <p>1. “Dear Plant Doctor” monthly newspaper column in Star 2 section, The Star newspaper, Mar to Dec. 20-17.</p> <p>2. EMRAN, M.T., SUHARDI M. & TEH, C.B.S. Morphology of plant's root system along riverbank as a key for ecological</p>

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	<ol style="list-style-type: none"> 2. "Use water wisely like S'pore". Letters. New Straits Times. June 26, 2012. 3. "Lingua franca in decline". Letters. New Straits Times. Dec. 8, 2011. 4. "Reading books crucial". Letter to Editor. New Straits Times. June 2, 2011 5. "Misunderstood goals". Letter to Editor. New Straits Times. Sept. 15, 2010 6. "Use eco-cities as models". Letter to the Editor. New Straits Times. July 9, 2008. 7. "No books or libraries, please". Letter to the Editor. New Straits Times. June 7, 2005. <p>Thesis</p> <ol style="list-style-type: none"> 1. TEH, C.B.S. 2001. Modelling the partitioning of captured solar radiation and evapotranspiration in intercropping systems. Ph.D. Thesis, The University of Reading, UK. 2. TEH, C.B.S. 1996. Soil aggregate stability: its evaluation and relation to organic matter constituents and other soil properties. M. Agric. Sc. Thesis, Universiti Pertanian Malaysia, Serdang. 3. TEH, C.B.S. 1994. Changes in soil physical and morphological characteristics with empty fruit bunch application after 10 years. B. Agric. Sc. Thesis, Universiti Pertanian Malaysia, Serdang.
Computer software	

H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)					
Project No.	Project Title	Role	Year	Source of fund	Status
9323724	<ul style="list-style-type: none"> • Project leader."Flexible learning of the science of crop growth through the development of an Android mobile app for agriculture students in today's Internet 4.0 age"; Geran Insentif Penyelidikan dalam Pengajaran dan Pembelajaran (GIPP); 2017-2019; GIPP 9323724; RM12,000 	Project leader	2017	GIPP; UPM	On-going
22817	<ul style="list-style-type: none"> • Project co-researcher. "Economic implication of global climate change on Malaysia palm oil production and exports"; FGRS; No. 22817; 2013-2015; RM70,000. 	Project co-researcher	2013	MOSTI	Ended

9323614	<ul style="list-style-type: none"> • Project leader. "Development of a spreadsheet software for students who are non-computer programmers to build and run mathematical models"; Geran Insentif Penyelidikan dalam Pengajaran dan Pembelajaran (GIPP); 2012-2014; GIPP/9323614; RM14,000 	Project leader	2012	GIPP; UPM	Ended
06-01-04-SF1430	<ul style="list-style-type: none"> • Project leader. "The use of silt pits in non-terraced hill slopes to conserve soil nutrients and to reduce water stress in oil palm trees"; Sciencefund MOSTI; 2012-2014; 06-01-04-SF1430; RM95,000 	Project leader	2012	MOSTI	Ended
01-01-09-0692RU	<ul style="list-style-type: none"> • Project leader. "Predicting the impact of the expected climate change in Malaysia on the growth and yield of some leafy vegetable crops"; Research University Grant Scheme (RUGS); 2009-2011; 01-01-09-0692RU; RM65,000 	Project leader	2009	RUGS; UPM	Ended
Q J130000 7122.00J98	<ul style="list-style-type: none"> • Project co-researcher. "Infiltration under oil palm plantation: Heterogeneities from canopy to interspace"; UTM Research University Grant Scheme (RUGS); 2011-2012; Q.J130000.7122.00J98; RM40,000 	Project co-researcher	2011	RUGS; UTM	Ongoing
J130000 7822 4F077	<ul style="list-style-type: none"> • Project co-researcher. "Mechanism of vertical water movement under oil palm plantation during and after rainfall"; UTM Fundamental Research Grant Scheme (FRGS); 2011-2012; J13000078224F077; RM36,000 	Project co-researcher	2011	FRGS; UTM	Ongoing

J130000 7722 40049	<ul style="list-style-type: none"> • Project co-researcher. “Development of pedotransfer functions for Malaysian soils”; UTM Short Term Research Grant - Foreign Academic Visitor Fund; 2011-2012; .J130000772240049; RM30,000 	Project co-researcher	2011	UTM	Ongoing
01-09-09- 680FR	<ul style="list-style-type: none"> • Project leader. “Rainfall interception by various tree canopy types estimated from leaf area index and gross rainfall only”; Fundamental IPTA UPM; 2009-2011; 01-09-09-680FR; RM36,000 	Project leader	2009	FRGS; UPM	Ended
05-01-04- SF1098	<ul style="list-style-type: none"> • Project leader. “Estimating the impact of climate change on oil palm growth and yield in Malaysia: The next 40 years”; Agriculture R&D Sciencefund Grant (Ministry of Agriculture, MOA); 2009-2011; 05-01-04-SF1098; RM147,000 	Project leader	2011	MOA	Ended
05-01-04- SF0632	<ul style="list-style-type: none"> • Project leader. "To develop a sustainable practice to protect and manage soil fertility and water conservation for steepland oil palm"; 2006-2008; IRPA RMK9; 05-01-04-SF0632; RM118,997 	Project leader	2006	IRPA; MOSTI	Ended
05-01-04- SF0633	<ul style="list-style-type: none"> • Project leader. "Optimal fertiliser rates and time of application for oil palm grown in tropical peatland"; 2006-2008; IRPA RMK9; No. 05-01-04-SF0633; RM 134,993 	Project leader	2006	IRPA; MOSTI	Ended
05-10-07- 369FR	<ul style="list-style-type: none"> • Project leader. “A biochemical, process-based approach to model the canopy photosynthesis and flowering cycle of oil palm”; 2007-2009; Fundamental Research Grant Scheme (FGRS); 	Project leader	2007	FRGS; UPM	Ended

--	05-10-07-369FR; RM48,000 • Project leader. "How the oil palm captures solar radiation and ways to optimise its capture for increased crop growth rate and yield"; Yayasan FELDA; 2004-2007;	Project leader	2004	FELDA	Ended
01-02-04-0686-EA001	RM100,000 • Project leader. "Modelling the oil palm growth and its microclimate environment"; IRPA EAR RMK8; No. 01-02-04-0686-EA001; 2003-2006;	Project leader	2003	IRPA; MOSTI	Ended
03-07-03-065J	RM131,500 • Project leader. "Determining how soil aggregates break down with time and the factors that affect the aggregate break down rate"; UPM Fundamental research; No. 03-07-03-065J; 2004-2005; RM34,500	Project leader	2004	FRGS; UPM	Ended
53102	• Project leader. "Three-dimensional rendering of intercropping vegetation cover and modelling its radiation regime and evapotranspiration"; UPM New Lecturer Research Scheme; No. 53102; 2002-2003; RM10,000	Project leader	2002	UPM	Ended