

Tropical Data Science School

Choose your dates!



Registration Fee : USD 1,290

Open to all!

ACCOMODATION AND MEALS ARE PROVIDED



SCHOOL OF
COMPUTER
SCIENCES
UNIVERSITI SAINS MALAYSIA



International
Mobility &
Collaboration
Centre



UNIVERSITI
SAINS
MALAYSIA



It is ranked #143 in QS World University Rankings 2023.

On top of that, USM is becoming a top sustainability-led university after being placed at No.4 in the recent Times Higher Education (THE-GIR) 2022 global sustainability rankings.

Universiti Sains Malaysia (USM)

USM is an exemplary and enviable model of garden university. It is harmoniously organized garden campus that provides a platform for intellectual discourse into the exploration of human nature rich with tropical flora and fauna and forest habitats.

Located in Georgetown,
Penang's capital which
holds the UNESCO
world heritage status!

—Don't miss the chance to take a leisurely stroll through the exquisite path walk in the evening as the golden ray pours through the leaves! And brace yourself for you will be likely to stumble upon one of USM's most renowned locals, the biawak, at the lake.



United Nations
Educational, Scientific and
Cultural Organization



World
Heritage
Convention



- Students will be able to comprehend data science workflow, the many roles within data science, and the application of data science to actual situations through this curriculum.
- Students will learn how to interpret and diagnose data which also includes how to handle data issues.
- Students will also learn about the significance of storytelling in data science and how to convey the findings in a manner that is understandable to all.
- Students will also be exposed about Malaysia's diverse cultures through food, clothing, among many others. After that, they will engage in team-building activities, excursions and visit historical places throughout Penang.



Your AHA moments!



B Buddies

BUDDIES

- Buddies are the student volunteers that help to bridge the gap between the international and local students.
- The Buddies will ensure and assist international students in acclimatising to their new environment and surrounding
- Buddies also aid students for international programme as well as providing information regarding USM, Penang and Malaysia.
- They encourage interaction and exchanges of opinion between international students and local students in order to help build and expand social networks that transcend borders, countries and continents.

You are going to LOVE our Buddies!



Schedule

TIME	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
0800 - 0900			Breakfast		Breakfast		
0900 - 0930	Depart from hostel	Depart from hostel					
0930 - 1000	Breakfast	Breakfast					
1000 - 1100	Welcoming Session	Lecture 2	Lecture 3	Lecture 4		Lecture 6	Lecture 7
1100 - 1130	Ice breaking						Depart to Balik Pulau
1130 - 1200		Short Break	Depart to Padang Kota	Short Break			
1200 - 1230					Penang Hill visit		
1230 - 1300		Free time		Lecture 5		Free time	
1300 - 1330	Cultural Activity						Countryside Exploration
1330 - 1400		Lunch Break	Penang Georgetown visit			Lunch break	
1400 - 1430	Lunch Break						
1430 - 1500					Depart to USM	Depart to Venue	
1500 - 1530	Lecture 1	Cultural Activity		Lunch @ Weld Quay			
1530 - 1600				Cultural Activity	Free time		Depart to USM
1600 - 1630	Tea break						
1630 - 1700		Tea break	Depart to USM		Depart to Stadium	Dinner and Chill	
1700 - 1730				Tea break	Sweat it off : Captain Ball		
1730 - 1830	Campus Tour						
1830 - 1900						Depart to hostel	
1900 - 1930							
1930 - 1945	Free time				Free time		
1945 - 2000							
2000 - 2230	Dinner					Free time	
2230							

Schedule

TIME	Day 8	Day 9	Day 10	Day 11	Day 12
0800 - 0900		Depart from hostel			
0900 - 0930	Depart from hostel	Breakfast	Depart from hostel	Depart from hostel	Depart from hostel
0930 -1000	Breakfast	Lecture 9	Breakfast	Breakfast	Breakfast
1000 - 1100					
1100 - 1130	Lecture 8		Lecture 10	Lecture 11	
1130 - 1200					Closing ceremony
1200 - 1230	Short break	Free time	Short break	Short break	
1230 - 1300	Group activity 1		Group activity 2	Group activity 3	
1300 -1330					
1330 - 1400	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
1400 - 1430					
1430 - 1500		Free time	Cultural Activity	Presentation: Forum	
1500 - 1530					
1530 - 1545	Cultural Activity				
1545 - 1600					
1600 - 1630				Tea Break	Free time
1630 - 1645	Tea Break	Tea break	Tea Break		
1645 - 1700					
1700 - 1730					
1730 - 1800					
1800 - 1830					
1830 - 1900					
1900 - 1930	Free time	Free time	Free time	Free time	
1930 - 1945					
1945 - 2000					
2000 - 2230					
2230					

Instructors



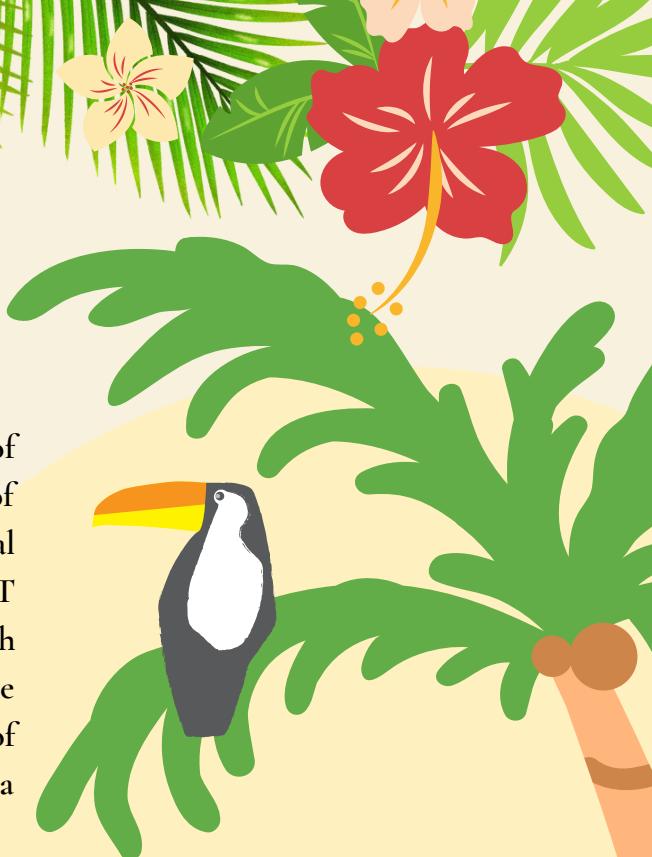
DR. NOOR FARIZAH IBRAHIM



DR. NASUHA LEE ABDULLAH

What on Earth is Data Science?

Dr Noor Farizah Ibrahim works as a Senior Lecturer at the School of Computer Sciences, USM after receiving her PhD from the University of Bristol, United Kingdom. She is also a certified tester of the International Software Testing Qualifications Board (ISTQB) and a Huawei Certified ICT Associate and Academy Instructor in Artificial Intelligence (AI). Her research interests include Data/Text Analytics, Natural Language Processing, Machine Learning, and Social Media Research. She is currently teaching the Principle of Data Science and Analytics and Customer Behaviour and Social Media Analytics courses at USM.



Tell a Story with Data

Dr Nasuha Lee Abdullah holds a Doctorate in Engineering Business Management and is currently a senior lecturer at the School of Computer Sciences, USM. Prior to joining USM in 2009, Dr Nasuha had been in the Electrical and Electronics (E&E) Manufacturing Industry for over 15 years specialising in Quality Management. Her experience includes heading quality departments at multinational companies. As a former QA Manager, she knows the power of data, and her interest is in effective communication using data to drive decision-making.





Is the Zebra White with Black Stripes, or Vice Versa? Understanding Consumer Behaviour of the 21st Century

Dr Syaheerah's research interests span the areas of human-computer interaction (HCI), particularly affective computing and behaviour analysis. Understanding the theory and design of a scalable and autonomous architecture of socio-emotional models in conversational agents is a recurring theme in her research. She teaches consumer behaviour and works on shopper insights since she is passionate about behavioural informatics. Through online studies, this entails detecting and quantifying the subconscious influences on consumer behaviour. She has authored multiple high-impact publications in the field and is a consulting trainer for business players in behavioural analysis using machine learning. She also enjoys playing badminton with her kids and going on hikes. When she has the time, she also loves to read.



DR. SYAHEERAH LEBAI LUTFI

How Do You Make Sense of Data? Visualize It!



Dr Nur Intan Raihana Ruhaiyem earned her PhD in Computational Bioinformatics and Image Processing in 2013 from the University of Queensland in Australia. She has been a trainer since 2018 and currently works as a Senior Lecturer at the USM School of Computer Sciences. She has been working as a trainer since 2018. Her specialisations are image processing, computer vision and visualisation. She believes that data visualisation has everything to assist human visual perception.



DR. NUR INTAN RAIHANA RUHAIYEM



Machine Learning: Ingredients to "Cook Up" Machines That Can Learn From Data

Dr Jasy Liew Suet Yan is a Senior Lecturer at the School of Computer Science, USM, specialising in Sentiment Analysis, Natural Language Processing and Machine Learning. She earned her PhD from Syracuse University's School of Information Studies in the United States in 2016. Text mining, computational linguistics, emotional computing, and human-computer interaction are some of her extensive research interests. She builds emotion and sentiment recognition models in her research using machine learning. She is also a regular instructor for the machine learning (Postgraduate) course at the School of Computer Sciences. She likes to travel to learn about the quirks of many languages and civilisations.



DR. JASY LIEW SUET YAN

Say No to Banks and Middlemen, Say Yes to Blockchain!



Ever wondered what blockchain was or how cryptocurrency works? Or how blockchain can play a role in our daily lives? This course will take you from blockchain's inception to the birth of cryptocurrency and the emergence of NFTs. Find out how blockchain allows Starbucks customers to trace where their beans come from. Learn how to set up your own blockchain wallet and claim your own "blockchain identity". Experience how digital signatures can be used to verify if messages are authentic. Interact with Web3 applications and NFT marketplaces. Upon completing this course, you will have a greater understanding of blockchain and all the things that it is capable of.



DR. TEH JE SEN

Data Optimization with Excel Solver



DR. WONG LI PEI

Dr Wong Li Pei is an Associate Professor at the School of Computer Sciences, USM. He obtained his Bachelor of Computer Science and Master of Science (Computer Science) from USM and PhD from Nanyang Technological University (NTU), Singapore. His research fields includes nature-inspired metaheuristics, soft computing and hyper-heuristics and his current research focus is scheduling in transportation and manufacturing. He teaches undergraduate and postgraduate courses such as Artificial Intelligence, Computational Intelligence, Evolutionary Computing, and Business Intelligence & Decision Analytics. He reviews journal paper submissions for Applied Soft Computing, Swarm and Evolutionary Computation, Natural Computing, IEEE Access, Information Sciences and Swarm Intelligence.

Keywords Discovery Using Simple Text Mining in R

Dr Gan Keng Hoon, a Senior Lecturer in the School of Computer Sciences, USM, obtained her PhD from Universiti Malaya (UM) in 2013. Her domains of specialization include information retrieval, structured retrieval, structured document representation and query optimization. Her primary research interests concentrate on generating semantically rich contents/ documents/ texts resulting from massive tagging and annotations by various levels of users, with applications focusing on automated content building and platform development for structured text processing.



DR. GAN KENG HOON

Industry Trainer - Blockchain in Practice

TS. Dr Mohd Anuar Mat Isa is the founder of IExploTech (www.iexplotech.com). He has double-PhDs in technology, namely PhD in Computer Science from Universiti Putra Malaysia and PhD in Electrical Engineering from Universiti Teknologi Mara. He is a freelance researcher and also an embedded system developer. He is actively involved in Cryptographic Society NGO, the Malaysian Society for Cryptology Research (MSCR), and aggressively contributes to the Institusi Pendidikan Tinggi Malaysia (IPTM) Blockchain Project. His research is focused on asymmetric cryptography, lightweight cryptography for embedded devices, embedded firmware security, formal methods, blockchain, trust & mathematical modelling, and international relations. He was a technology inventor with over ten patents during working at Mimos Berhad.



TS. DR. MOHD ANUAR MAT ISA





DR. MOHD HALIM MOHD NOOR



TS. DR. CHEW XINYING

Image Analytics Using Deep Learning

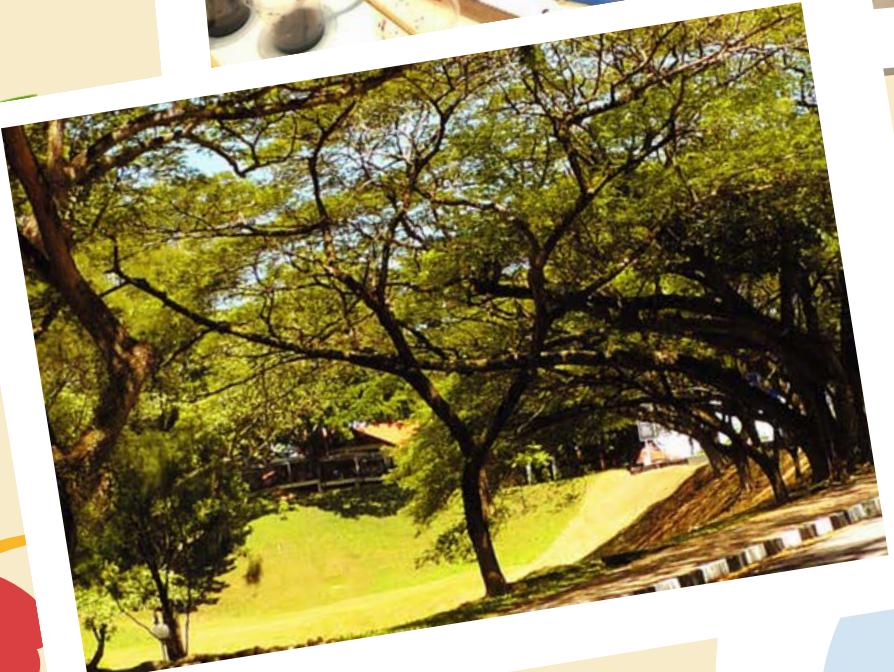
Dr Mohd Halim Mohd Noor is a Senior Lecturer in the School of Computer Sciences, USM. His research interests include machine learning, deep learning, computer vision and pervasive computing. In addition, logistics regression, neural networks and convolutional neural networks.

Statistics for Data Science

TS. Dr Chew XinYing is a Senior Lecturer in the School of Computer Sciences, USM and holds a PhD in Statistical Quality Control from Universiti Sains Malaysia. She is a certified trainer with Human Resources Development Fund (HRDF) as well as the trainer for MDEC-Intel AI Academy Programme and SAP Next-Gen Programme. She is the adjunct Research Fellow of Swinburne University of Technology, Sarawak Campus. The Malaysia Board of Technologists also recognises her as a Professional Technologist (MBOT). She worked for a renowned US multinational company's Advance Analytics Research team before beginning her academic career. Advanced analytics and statistical quality/process control are the focus of her study.

Note: Some of our selected trainers are HRDF - Human Resources Development Fund certified ([HRDP Corp](#)), and are corporate trainers. Trainer slots are chosen based on the duration of the Tropical School, background of participants, hence not all trainers will be involved. Changes may apply.





Batik Chanting - Penang Beach - Campus Tour- Georgetown UNESCO World Heritage Tour & many more!

*Changes may apply depending on the time, weather, suitability



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