



**TROPICAL**  
**DATA SCIENCE**  
**SCHOOL**  
Unzipping Information Wealth

**CALL FOR PARTICIPATION**

*COME JOIN US*

**ONLINE** **TROPICAL**  
**DATA SCIENCE**  
**SCHOOL**  
*Let's Learn*

EXPERIENCE THE HEART OF TROPICS WITH REAL GIFTS SENT OVER TO YOU

**EVENT DATE**

29th Nov -4th Dec

**TIME**

Morning Session 8:00-10:30 \*\*

Noon Session 14:00-16:30 \*\*

\*\* Spanish Time(+7Malaysian)

**WHAT YOU'LL LEARN**

- The students will be able to understand data science workflow, the different roles within data science, and the application of data science to real-world problems.
- The importance of storytelling in data science and how to present your findings in a way that everyone can understand.
- Participants will know how to make sense of and diagnose data. This includes how to deal with problems in the data. You will then learn about visualization, another important tool for exploring your data and communicating your findings.

**FREE ADMISSION**

**SCAN TO REGISTER**



**OR**

**CLICK HERE**



**USM**

UNIVERSITI SAINS MALAYSIA

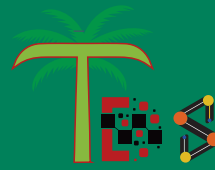
**Any Inquiries? Write To**  
**Dr.Syaheerah Lebai Lutfi**  
[syaheerah@usm.my](mailto:syaheerah@usm.my) (TDSS Coordinator)



**SCHOOL OF**  
**COMPUTER**  
**SCIENCES**

UNIVERSITI SAINS MALAYSIA

# WHAT YOU WILL LEARN



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01

The students will be able to understand data science workflow, the different roles within data science, and the application of data science to real-world problems.

The importance of storytelling in data science and how to present your findings in a way that everyone can understand.

02



03

Participants will know how to make sense of and diagnose data. This includes how to deal with problems in the data. You will then learn about visualization, another important tool for exploring your data and communicating your findings.



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Register



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# SCHEDULE

**COORDINATOR**  
**DR. SYAHEERAH LEBAI LUTFI**

DATE	DAY	SESSION	INSTRUCTOR	INITIAL	MODULE TITLE	SLOT(TIME)	S/W PRE-INSTALLATION
29 November, 2021	MONDAY	MORNING SESSION	International Mobility and Collaboration Center (IMCC)	IMCC	Cultural Exposure Prog 1	8:00 - 10:30	NOT REQUIRED
	MONDAY	NOON SESSION	Dr.NOOR FARIZAH IBRAHIM	NFI	What on Earth is Data Science?	14:00 - 16:30	NOT REQUIRED
30 November, 2021	TUESDAY	MORNING SESSION	Dr.NASUHA LEE ABDULLAH	NLA	Tell a Story with Data	8:00 - 10:30	NOT REQUIRED
	TUESDAY	NOON SESSION	International Mobility and Collaboration Center (IMCC)	IMCC	Cultural Exposure Prog 2	14:00 - 16:30	NOT REQUIRED
1 December, 2021	WEDNESDAY	MORNING SESSION	Dr.WONG LI PEI	WLP	Data Optimization with Excel Solver	8:00 - 10:30	MICROSOFT EXCEL WITH SOLVER ADD-IN
	WEDNESDAY	NOON SESSION	Dr.SYAHEERAH LEBAI LUTFI ( <a href="http://www.syaheerah.com">www.syaheerah.com</a> )	SLL	Is the Zebra white with black stripes, or vice versa? Understanding Consumer Behaviour of the 21st Century	14:00 - 16:30	NOT REQUIRED
02 December, 2021	THURSDAY	MORNING SESSION	Dr.CHEW XINYING	CXY	Statistics for Data Science	8:00 - 10:30	NOT REQUIRED
	THURSDAY	NOON SESSION	Dr.MOHAMED HALIM MOHAMED NOOR	MHMN	Image Analytics using Deep Learning	14:00 - 16:30	NOT REQUIRED
03 December, 2021	FRIDAY	MORNING SESSION	Dr.JASY LIEW SUET YAN	JLSY	Machine Learning: Ingredients to "cook up" machines that can learn from data	8:00 - 10:30	OPTIONAL: PYTHON
	FRIDAY	NOON SESSION	Dr.NUR INTAN RAIHANA RUHAIYEM	NIRR	How do you make sense of Data? Visualize It!	14:00 - 16:30	CLICK HERE
04 December, 2021	SATURDAY	MORNING SESSION	Dr.GAN KHENG HOON	GKH	Keywords Discovery using Simple Text Mining in R	8:00 - 10:30	CLICK HERE
	SATURDAY	NOON SESSION	Dr.ANUAR ISA (Industry Expert)	AI	A Good Course to Kick-Start for Blockchain Technology, Smart Contract and Android DApps	14:00 - 16:30	CLICK HERE



## INSTRUCTORS FOR TROPICAL DATA SCIENCE SCHOOL



DR. NASUHA LEE ABDULLAH

DR. NASUHA LEE ABDULLAH HOLDS A DOCTORATE DEGREE IN ENGINEERING BUSINESS MANAGEMENT AND IS CURRENTLY A SENIOR LECTURER AT THE SCHOOL OF COMPUTER SCIENCES, UNIVERSITI SAINS MALAYSIA. PRIOR TO JOINING USM IN 2009, NASUHA HAS BEEN IN THE ELECTRICAL AND ELECTRONICS (E & E) MANUFACTURING INDUSTRY FOR OVER 15 YEARS SPECIALIZING 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.

Dr. Wong Li Pei

DR. WONG LI PEI IS AN ASSOCIATE PROFESSOR AT THE SCHOOL OF COMPUTER SCIENCES, UNIVERSITI SAINS MALAYSIA (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 ARE NATIVE-INSPIRED METAHEURISTICS, SOFT COMPUTING, AND HYPER-HEURISTICS. 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 ACTIVELY REVIEWS JOURNAL PAPER SUBMISSIONS FOR APPLIED SOFT COMPUTING, SWARM AND EVOLUTIONARY COMPUTATION, NATURAL COMPUTING, IEEE ACCESS, INFORMATION SCIENCES, AND SWARM INTELLIGENCE.



DR. NOOR FARIZAH IBRAHIM

NOOR FARIZAH IBRAHIM WORKS AS A SENIOR LECTURER AT THE SCHOOL OF COMPUTER SCIENCE, UNIVERSITI SAINS MALAYSIA (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 PRINCIPLES OF DATA SCIENCE AND ANALYTICS AND CUSTOMER BEHAVIOUR AND SOCIAL MEDIA ANALYTICS COURSES AT USM.



TS. DR. CHEW XINYING

TS. DR. CHEW XINYING IS A SENIOR LECTURER IN THE SCHOOL OF COMPUTER SCIENCES, UNIVERSITI SAINS MALAYSIA. SHE HOLDS A PHD IN STATISTICAL QUALITY CONTROL FROM UNIVERSITY SAINS MALAYSIA. SHE IS A CERTIFIED TRAINER WITH HUMAN RESOURCES DEVELOPMENT FUND (HRDF). SHE IS ALSO THE TRAINER FOR MDEC-INTEL AI ACADEMY PROGRAM AND SAP NEXT-GEN PROGRAM. SHE IS THE ADJUNCT RESEARCH FELLOW OF SHENZHEN UNIVERSITY OF TECHNOLOGY, SHENZHEN CAMPUS. SHE IS ALSO THE PROFESSIONAL TECHNOLOGIST WITH THE MALAYSIA BOARD OF TECHNOLOGISTS (MBOT). BEFORE HER ACADEMIC CAREER, SHE WORKED IN THE ADVANCED ANALYTICS RESEARCH TEAM OF A RENOWNED U.S. MULTINATIONAL COMPANY. HER AREAS OF RESEARCH ARE IN ADVANCED ANALYTICS AND STATISTICAL QUALITY/PROCESS CONTROL.



DR. NUR INTAN RAIHANA RUHAİYEM

NUR INTAN RAIHANA RUHAİYEM OBTAINED HER PHD IN 2014 FROM UNIVERSITY OF QUEENSLAND, IN COMBINATORIAL, SYNERGETIC AND IMAGE PROCESSING. SHE IS CURRENTLY A SENIOR LECTURER AT THE SCHOOL OF COMPUTER SCIENCES, UNIVERSITI SAINS MALAYSIA. SHE IS ALSO A TRAINER FOR SEVERAL TRAININGS SINCE 2018. HER SPECIALIZATION IS IMAGE PROCESSING, COMPUTER VISION AND VISUALIZATION. SHE BELIEVES THAT DATA VISUALIZATION HAS EVERYTHING TO ASSIST HUMAN'S VISUAL PERCEPTION.



DR. JASY LIEW SUET YAN

DR. JASY LIEW SUET YAN IS A SENIOR LECTURER AT THE SCHOOL OF COMPUTER SCIENCES, UNIVERSITI SAINS MALAYSIA SPECIALIZING IN SENTIMENT ANALYSIS, NATURAL LANGUAGE PROCESSING AND MACHINE LEARNING. HER BROADER RESEARCH INTERESTS INCLUDE TEXT MINING, COMPUTATIONAL LINGUISTICS, AFFECTIVE COMPUTING AND HUMAN-COMPUTER INTERACTION. SHE COMPLETED HER PHD FROM THE SCHOOL OF INFORMATION STUDIES, SYRACUSE UNIVERSITY, THE USA IN 2016. SHE APPLIES MACHINE LEARNING IN HER RESEARCH TO BUILD EMOTION AND SENTIMENT DETECTION MODELS AND IS A REGULAR INSTRUCTOR FOR THE MACHINE LEARNING (POSTGRADUATE) COURSE AT THE SCHOOL OF COMPUTER SCIENCES. SHE ENJOYS TRAVELLING TO DISCOVER THE PECULIARITIES OF DIFFERENT LANGUAGES AND CULTURES.



Ts. DR. MOHD ANUAR MAT ISA

TS. DR. MOHD ANUAR MAT ISA IS THE FOUNDER OF IEXPLOTECH ([WWW.IEXPLOTECH.COM](http://WWW.IEXPLOTECH.COM)). HE HAS DOUBLE-PhDs IN TECHNOLOGY, NAMELY PH.D. IN COMPUTER SCIENCE FROM UNIVERSITI PUTRA MALAYSIA AND PH.D. 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 MCO, THE MALAYSIAN SOCIETY FOR CRYPTOLOGY RESEARCH (MASCOR), AND ALSO AGGRESSIVELY CONTRIBUTES TO INSTITUT PENDIIDIKAN TINGGI MALAYSIA (IPTM) BLOCKCHAIN PROJECT. HIS RESEARCH WORK IS FOCUSED ON ASYMMETRIC CRYPTOGRAPHY, LIGHTWEIGHT CRYPTOGRAPHY FOR EMBEDDED DEVICES, EMBEDDED PRIVATE SECURITY, FORMAL METHODS, BLOCKCHAIN, TRUST & MATHEMATICAL MODELLING, AND INTERNATIONAL RELATIONS. HE WAS A TECHNOLOGY INVENTOR FOR OVER 10 PATENTS DURING WORKING AT MIMOS BERHAD.



DR. GAN KENG HOON

GAN KENG HOON IS A SENIOR LECTURER IN THE SCHOOL OF COMPUTER SCIENCES, UNIVERSITI SAINS MALAYSIA. SHE RECEIVED HER PH.D. DEGREE FROM UNIVERSITI OF 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 THE GENERATION OF SEMANTICALLY RICH CONTENT/DOCUMENTS/TEXTS RESULTING FROM MASSIVE TAGGING AND ANNOTATIONS BY VARIOUS LEVELS OF USERS WITH APPLICATIONS FOCUSING ON AUTOMATED CONTENTS BUILDING AND PLATFORM DEVELOPMENT FOR STRUCTURED TEXT PROCESSING.



DR. MOHD HALIM MOHD NOOR

MOHD HALIM MOHD NOOR IS A SENIOR LECTURER WITH THE SCHOOL OF COMPUTER SCIENCES, UNIVERSITI SAINS MALAYSIA. HIS RESEARCH INTERESTS INCLUDE MACHINE LEARNING, DEEP LEARNING, COMPUTED VISION AND DEEPWAVE COMPUTING. THIS ALSO INCLUDES LOGISTIC REGRESSION, NEURAL NETWORKS AND CONVOLUTIONAL NEURAL NETWORKS.



DR. SYAHEERAH LEBAI LUFTI

DR. SYAHEERAH'S (SHA-HEE-DAH) RESEARCH INTERESTS SPAN THE AREAS OF HUMAN-COMPUTER INTERACTION (HCI), PARTICULARLY AFFECTIVE COMPUTING AND BEHAVIOUR ANALYSIS. A COMMON THREAD IN HER RESEARCH IS UNDERSTANDING THE THEORY AND DESIGN OF A SCALABLE AND INDEPENDENT ARCHITECTURE OF SOCIO-EMOTIONAL MODELS IN CONVERSATIONAL AGENTS. HER PASSION FOR BEHAVIOURAL INFORMATION HAS LED HER TO TEACH CONSUMER BEHAVIOUR AND WORK ON SHOPPER INSIGHTS. THIS INVOLVES OBSERVING AND MEASURING THE UNCONSCIOUS DRIVERS OF SHOPPING BEHAVIOUR THROUGH STUDIES CONDUCTED ONLINE. SHE IS A CONSULTING TRAINER FOR INDUSTRY PLAYERS IN THE FIELD OF BEHAVIOURAL ANALYSIS USING MACHINE LEARNING AND HAS PUBLISHED NUMEROUS HIGH IMPACT FACTOR PUBLICATIONS IN THE FIELD. HER OTHER PASSIONS INCLUDE HIKING AND PLAYING BADMINTON WITH HER CHILDREN. SHE IS ALSO AN AVID READER (WHEN TIME PERMITS).



[www.syaheerah.com](http://www.syaheerah.com)