

## CURRICULUM VITAE

**1 AIMS**

I am seeking a research-related position as I am in the final stage of completing my PhD at Universiti Sains Malaysia. Currently, I am waiting for my Viva-voce examination.

**2 PERSONAL PARTICULARS**

Name	Tengku Muhammad Hanis Bin Tengku Mokhtar
Address	Batu Rakit, Kuala Nerus, Terengganu
Age	35 years old
Status	Married
Race	Malay
Email	tengkuhanismokhtar@gmail.com
Website	<a href="https://tengkuhanis.netlify.app/">https://tengkuhanis.netlify.app/</a>

**3 ACADEMIC PROFILES**

Google Scholar	<a href="#">Tengku Muhammad Hanis</a> (h-index: 3, citations: 42)
ORCID	<a href="#">Tengku Muhammad Hanis</a> (ID: 0000-0003-1466-7765)
Scopus	<a href="#">Tengku Muhammad Hanis</a> (h-index: 3, citations: 23)
Web of Science	<a href="#">Tengku Muhammad Hanis</a> (h-index: 3, citations: 22)
ResearchGate	<a href="#">Tengku Muhammad Hanis</a> (h-index: 3, citations: 38)
SciProfiles	<a href="#">Tengku Muhammad Hanis</a>

**4 RESEARCH INTEREST**

- Population-based study – cancer registry
- Medical statistics – survival analysis, Poisson regression, meta-analysis
- Machine learning and deep learning
- Text analysis, bibliometrics and scientometrics
- The use of R and Python in medical research

## 5 EMPLOYMENTS

- Nov 2019 – Feb 2023: Graduate research assistant – Universiti Sains Malaysia, Kelantan
- Project financial management
  - Project documentation
  - Data collection and data cleaning
  - Data analysis and publication
- June 2017 – Oct 2021: Online map quality analyst – Lionbridge, United States
- Analysed data mainly from online maps and search results
  - Corrected errors in maps and search results
  - Performed market research on the list of places of interest in Malaysia
- May 2016 – Aug 2017: Freelance writer – MIMS Pte Ltd, Singapore
- Researched medical-related topics
  - Generated ideas for new content
  - Prepared well-structured draft articles
- March 2017 – May 2017: Hostel fellow – Universiti Sultan Zainal Abidin, Terengganu
- Managed student activities in the university hostel
  - Maintained good discipline and adherence to the university hostel's rules among the students
  - Managed student's concerns and issues related to the university hostel

## 6 EDUCATIONS

- Feb 2020 – Present PhD (Public Health Epidemiology), Universiti Sains Malaysia  
Research: Breast cancer risk estimation and prediction using machine learning and statistical analysis
- Sept 2017 – July 2019 MSc (Medical Statistics), Universiti Sains Malaysia  
CGPA: 3.30  
Research: Relative survival and its prognostic factors of breast cancer patients in Kelantan from 2007 to 2011  
Subjects: Principle of epidemiology, clinical epidemiology, basic statistics, intermediate statistics, advanced statistics, critical appraisal and research methodology

Sept 2016 – April 2017 (Not completed)	MSc (Medical Physiology) – Universiti Sultan Zainal Abidin Research: Prospective Randomized Control Trial (RCT) on pneumonia incidence among a high-risk group of Malaysian hajj pilgrims receiving 23-valent polysaccharide vaccine (PPSV23) and 13-valent pneumococcal conjugate vaccine (PCV13) (Not completed)
Sept 2008 – June 2015	M.B.B.Ch (Bachelor of Medicine and Surgery), Al-Azhar University Result: Good/Jayyid (69.57%)
Jan 2006 – June 2007	Tahfiz certificate, Darul Quran – JAKIM Result: Good/Jayyid
Jan 2006 – June 2007	Sijil Pelajaran Malaysia, SMKA Pahang Result: 5 1A 4 2A 2 3B 1 5C

## 7 SKILLS

### 7.1 Statistical and programming software:

1. R – advanced level
2. Python – intermediate level
3. SPSS – intermediate level
4. STATA – basic level
5. MPLUS – basic level

## 8 PUBLICATIONS

### 8.1 Research articles:

#### 8.1.1 First author:

1. Modelling excess mortality among breast cancer patients in the north-east region of peninsular Malaysia 2007-2011: a population-based study – BMC Public Health [<https://doi.org/10.1186/s12889-019-8113-2>]
2. Net survival differences of breast cancer between stages at diagnosis and age groups in the east coast region of West Malaysia: a retrospective cohort study – BMJ Open [<https://doi.org/10.1136/bmjopen-2020-043642>]
3. The top 100 most-cited publications on breast cancer and machine learning research: a bibliometric analysis – Current Medicinal Chemistry [<https://doi.org/10.2174/0929867328666211108110731>]

4. Factors influencing mammographic density in Asian women: a retrospective cohort study in the northeast region of peninsular Malaysia — Diagnostics [<https://doi.org/10.3390/diagnostics12040860>]
5. Diagnostic accuracy of machine learning models on mammography in breast cancer classification: a meta-analysis — Diagnostics [<https://doi.org/10.3390/diagnostics12071643>]
6. Over-the-counter breast cancer classification using machine learning and patient registration records — Diagnostics [<https://doi.org/10.3390/diagnostics12112826>]
7. Mapping breast cancer research in Malaysia: A scientometric analysis — Medicine & Health [<https://doi.org/10.17576/MH.2022.1702.12>]
8. Risk factors for COVID-19 mortality in Malaysia — Malaysian Journal of Medical Sciences [<https://doi.org/10.21315/mjms2022.29.6.12>]
9. Developing a supplementary diagnostic tool for breast cancer risk estimation using ensemble transfer learning — Diagnostics [<https://doi.org/10.3390/diagnostics13101780>]

#### 8.1.2 Co-author:

1. Measuring time-varying effective reproduction numbers for COVID-19 and their relationship with movement control order in Malaysia — International Journal of Environmental Research and Public Health [<https://doi.org/10.3390/ijerph18063273>]
2. A global bibliometric analysis on antibiotic-resistant active pulmonary tuberculosis over the last 25 years (1996-2020) — Antibiotics [<https://doi.org/https://doi.org/10.3390/antibiotics11081012>]
3. Bibliometric analysis of global research activity on premature mortality — Healthcare [<https://doi.org/10.3390/healthcare10101941>]
4. A bibliometric analysis of stroke caregiver research from 1989 to 2022 — International Journal of Environmental Research and Public Health [<https://doi.org/10.3390/ijerph20054642>]
5. The burden of premature mortality from cardiovascular diseases: a systematic review of years of life lost — PLOS ONE [<https://doi.org/10.1371/journal.pone.0283879>]
6. Premature mortality and years of potential life lost from cardiovascular diseases: protocol of a systematic review and meta-analysis — PLOS ONE [<https://doi.org/10.1371/journal.pone.0284052>]

#### 8.2 Books:

1. Data analysis in medicine and health using R — Chapman and Hall/CRC [<https://doi.org/10.1201/9781003296775>] (online version available at [https://bookdown.org/drki\\_musa/dataanalysis/](https://bookdown.org/drki_musa/dataanalysis/))

## 9 WEB APPS

1. ShinyBC: breast cancer risk estimator [Available at: <https://tengku-hanis.shinyapps.io/shinyBC/>]

## 10 TALKS, WORKSHOPS AND PRESENTATIONS

### 10.1 Invited lecture sessions:

1. Systematic review topic for Research & Evidence-Based Medicine III (REBME III) subject – University of Cyberjaya [January 27, 2022]

### 10.2 Webinars:

1. Basic of meta-analysis – Unit of biostatistics and research methodology, USM [August 18, 2021]
2. An introduction to meta-analysis using R – USM Epidemiological group [August 5, 2021]
3. An introduction to bibliometric analysis using R – Epidemiology and statistical modelling team, USM [September 24, 2020]

### 10.3 Conferences:

1. A guide to conducting systematic review on stroke – Malaysian Stroke Conference 2023 [July 27, 2023]
2. Exploring past literature: A bibliometric approach – Malaysian R User Group (MyRUG) [November 27, 2022]
3. An introduction to relative survival analysis using R – Malaysian R User Group (MyRUG) [November 22, 2020]

### 10.4 Workshops:

1. Workshop on scoping review & bibliometric analysis — Department of Community Medicine, USM [October 20, 2022]
2. An introduction to meta-analysis in R (Pre-conference workshop) — Malaysian R User Group (MyRUG) [November 6, 2021]
3. Systematic review and meta-analysis using RStudio — Department of Medical Microbiology and Parasitology, USM [October 18, 2021]

## 11 INVITED PEER REVIEWER

1. Cogent Engineering: 1 paper
2. BMC Women's Health: 2 papers
3. BMC Public Health: 1 paper
4. Digital Health: 1 paper

## 12 ONGOING RESEARCH PROJECTS

1. Systematic review and meta-analysis of premature cardiovascular mortality (in collaboration with Assoc Prof Dr Kamarul Imran Musa and his student from the Department of Community Medicine, USM)
2. Systematic review of critical thinking and clinical decision-making of the nurses (in collaboration with Assoc Prof Dr Kamarul Imran Musa and his student from the Department of Community Medicine, USM)
3. Systematic review and meta-analysis of nalbuphine (in collaboration with Dr Mohd Boniami Yazid and his student from the Department of Emergency Medicine, USM)
4. Systematic review and meta-analysis of tramadol (in collaboration with Dr Mohd Boniami Yazid and his student from the Department of Emergency Medicine, USM)

## 13 AWARDS AND ACHIEVEMENTS

2023	Postgraduate publishing incentives award x 4 – a total amount of RM 3,250
2022	Postgraduate publishing incentives award x 3 – a total amount of RM 3,750
2021	Postgraduate publishing incentives award x 1 – a total amount of RM 1,500

## 14 OTHER RESEARCH ACTIVITIES

1. Situation analysis and modelling of COVID-19 cases in Malaysia – Part of epidemiology and statistical modelling team, USM [Dashboard available at <https://healthdata.usm.my:3939/content/241/>]
2. Founded Machine learning and statistical analysis study group – YouTube channel: Study Group-ML-Stat [[https://www.youtube.com/channel/UCeCjmi\\_lpjOOPdxF7ku9H3g](https://www.youtube.com/channel/UCeCjmi_lpjOOPdxF7ku9H3g)]
3. Actively writing a non-formal academic blog at <https://tengkuhanis.netlify.app/post/>

## 15 REFERENCES

### Reference 1:

Name: Assoc Prof Dr Kamarul Imran Musa

Position: Head of Department of Community Medicine, School of Medical Sciences, USM

Email: drkamarul@usm.my

Relationship: Current main supervisor (PhD study)

### Reference 2:

Name: Assoc Prof Dr Najib Majdi Bin Yaacob

Position: Coordinator of Biostatistics and Research Methodology Unit, School of Medical Sciences, USM

Email: najibmy@usm.my

Relationship: Previous main supervisor (master study)

**Reference 3:**

Name: Dr Wan Nor Arifin Bin Wan Mansor

Position: Senior lecturer at Biostatistics and Research Methodology Unit, School of Medical Sciences, USM

Email: [wnarifin@usm.my](mailto:wnarifin@usm.my)

Relationship: Lecturer (master study)