

# FUTURE FOR WOMEN IN MATHEMATICS: THE WAY FORWARD

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Department of Mathematical Sciences  
Faculty of Science  
Universiti Teknologi Malaysia  
nhs@utm.my

Zoom Meeting | 10 September 2021



**2021 WOMEN IN MATHEMATICS**

**SEPT 06** **INSPIRATION TALK 1**  
DR. LIVIANA PALMISANO (UIK)

**SEPT 07** **SPECIAL SESSION 1**  
PROF. CRISTINA LIZANA (UFBA)  
PROF. ANNA CHERUBINI (Unisalento)

**SEPT 08** **SPECIAL SESSION 2**  
PROF. HASLINDA IBRAHIM (UUM)  
AP DR. FIZA ZAFAR (BZU)

**SEPT 09** **SPECIAL SESSION 3**  
MISS PRIYA (AIRASIA)  
AP DR. SAIMA AKRAM (BZU)  
DR. NORFARIZAN MOHD SAID (MNA)

**SEPT 10** **INSPIRATION TALK 2**  
PROF. ISABEL RIOS (UFF)

**SEPT 10** **SPECIAL SESSION 4**  
PROF. NOR HANIZA SARMIN (UTM)  
DR. REEM KHALID ALHEFTHI (KSU)  
PROF. DR. ZAKIA HAMMOUCH (UM)

FOR MORE INFORMATION VISIT  
<https://www.internationalmathematicsmaster.org/2021-thinkingmathematically>

#IamUTM

# MY BACKGROUND



- **B.Sc (Hons) Math (Minor in Economics) 1986-1989**
- **MA Math 1989-1990**
- **PhD Math 1995-1998**

**from State University of New York at Binghamton (now known as Binghamton University), New York, USA**

<https://people.utm.my/nizararmin/>

# ADMINISTRATOR IN UTM

**Joined UTM  
(2 May 1991)**



**HEAD**  
**Dept of Postgraduate  
Studies**  
**Faculty of Science**  
**(Nov 2007 - July 2012)**



**DEPUTY DEAN**  
**School of Graduate  
Studies**  
**(1 August 2012 -  
31 March 2016)**



**ASSOCIATE DIRECTOR**  
**(Student Services & Global  
Education Experience),**  
**UTM International**  
**(1 April 2018 -  
14 August 2019)**

**DIRECTOR**  
**(Global Education &  
Student Experience),**  
**UTM International**  
**(1 April 2016 -  
31 March 2018)**

**ASSOCIATE DIRECTOR**  
**(Global Strategy &  
Engagement) ,**  
**UTM International**  
**(15 August 2019 -  
31 December 2021)**

**SENATE MEMBER**  
**(16 January 2020 -  
15 January 2023)**

# MEMBER OF MALAYSIAN MATHEMATICAL SCIENCES SOCIETY





# SUPERVISOR

**Graduated Master Students**  
**26 students**

**Graduated Undergraduate Students**  
**42 students**



# SUPERVISOR

**Graduated PhD Students**  
**37 students**



# SUPERVISOR

**Active PhD Students**  
**10 students**



# SUPERVISOR

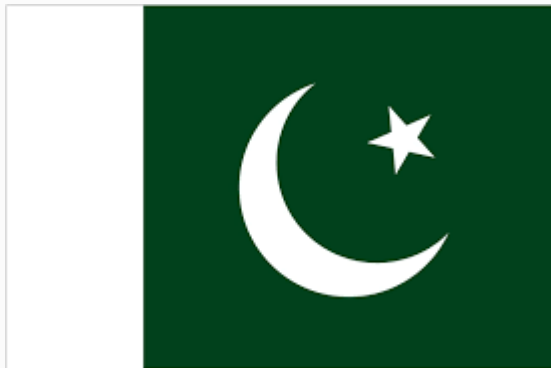
**Active Master Students**  
**3 students**

# SUPERVISOR



The Youngest Female PhD Holder

Dr. Hazzirah Izzati Mat Hassim  
 Malaysia Book of Record 2014  
 24 years and 2 months old

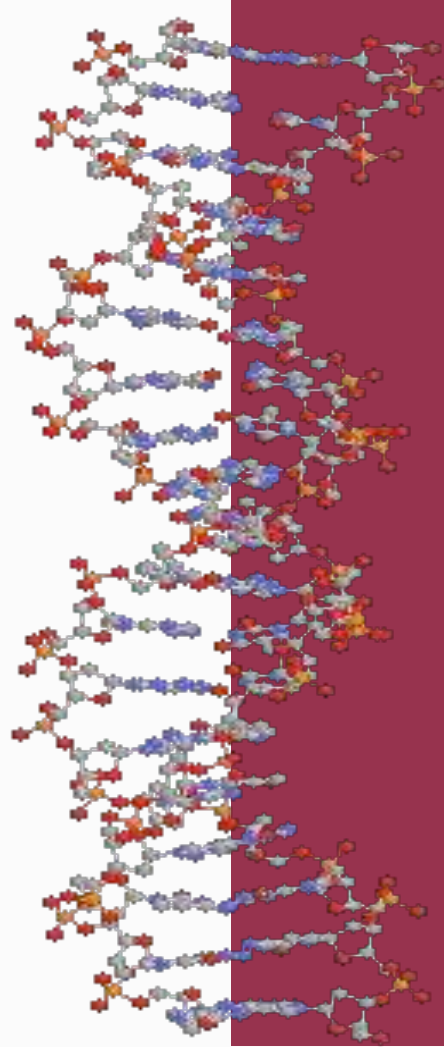
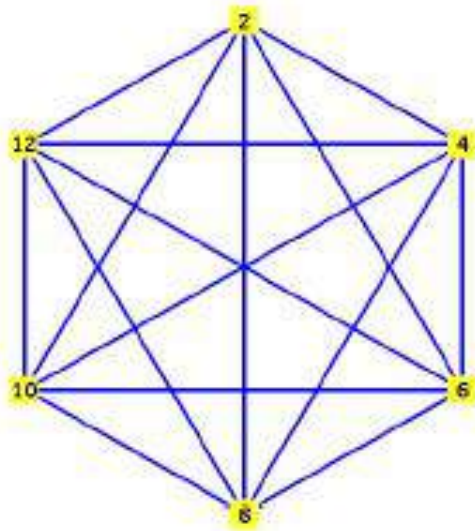
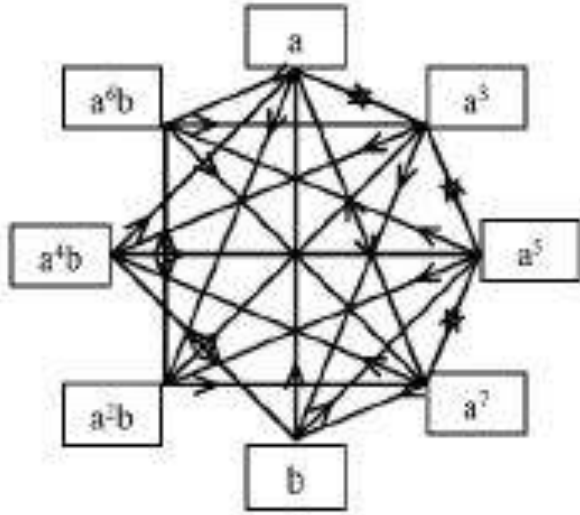


# EXTERNAL EXAMINERS

**Pakistan**

**India**

**Tamil Nadu**



# RESEARCH

(Pure Mathematics/Algebra)

- Group Theory
- Graph Theory
- DNA Splicing Systems
- Formal Language Theory

and Their Applications

## PUBLICATION

500 research papers

National and international journals and proceedings

Group theory and splicing systems

## RESEARCH GRANTS

More than 20 research grants as the leader

More than 25 research grants as a collaborator (local and international)



# Why mathematics field is my chosen career?



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# FUTURE FOR WOMEN IN MATHEMATICS: THE WAY FORWARD (Women in South East Asia)

**Prof Dr. Nor Haniza Sarmin**  
**Department of Mathematical Sciences**  
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**Universiti Teknologi Malaysia**  
**nhs@utm.my**

Zoom Meeting | 10 September 2021



# Southeast Asian Mathematical Society (SEAMS)

## WOMEN IN MATHEMATICS

Established  
**1973**

**24**  
Presidents from 1973 until 2021

**4**  
Women Presidents

**3**  
Women Meetings

# WOMEN IN MATHEMATICS

## President and Past Presidents of Southeast Asian Mathematical Society (SEAMS)



**Prof Dr Maslina Darus**  
**Universiti Kebangsaan Malaysia**  
**Malaysia**  
**2020-2021**



**Dr Wanida Hemakul**  
**(Retired Professor)**  
**Chulalongkorn University**  
**Thailand**  
**2006-2007**



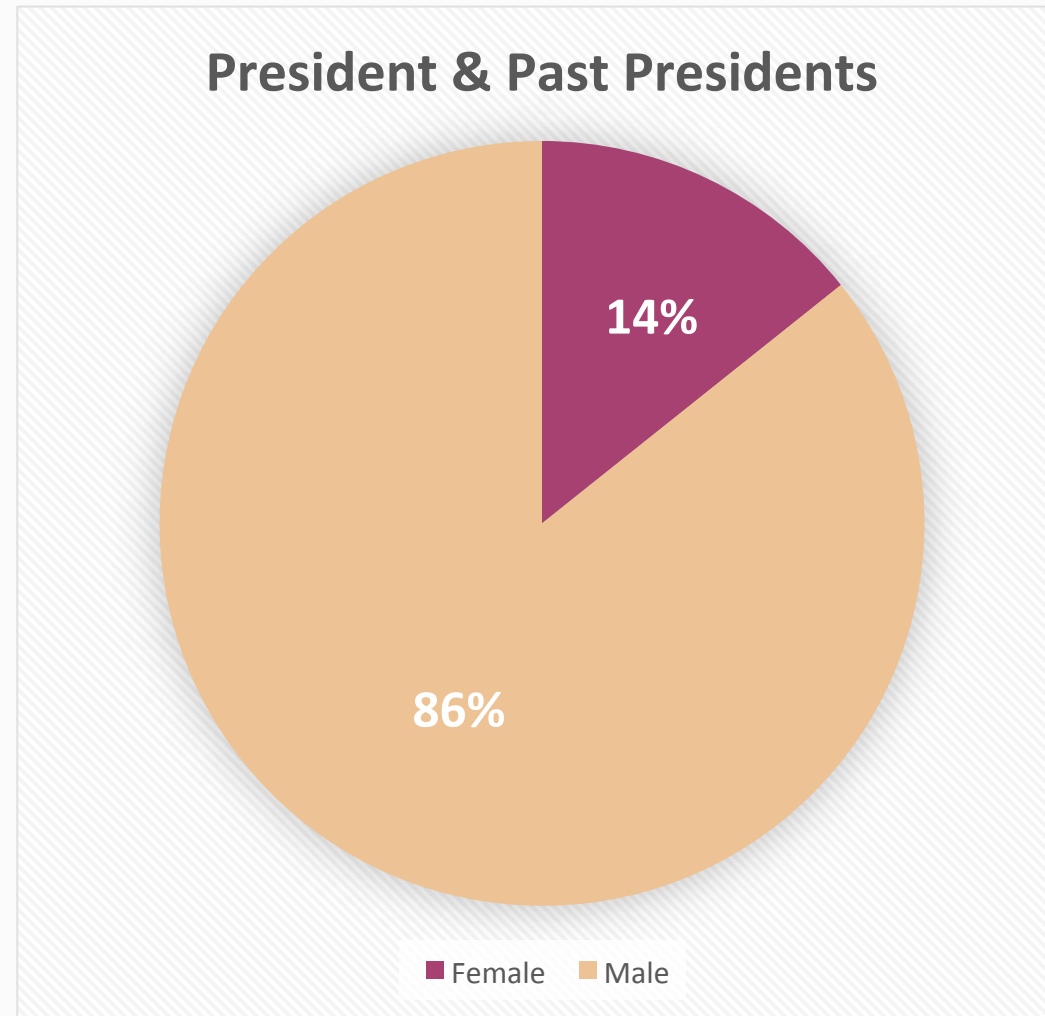
**Prof Emeritus Dr Polly W Sy**  
**University of The Philippines**  
**Philippines**  
**1998-1999**



**Prof Emeritus Dr Mari-Jo Ruiz**  
**Ateneo de Manila University**  
**Philippines**  
**1990-1991**

# WOMEN IN MATHEMATICS

President and Past Presidents of Southeast Asian Mathematical Society (SEAMS)



# WOMEN IN MATHEMATICS

Southeast Asian Mathematical Society (SEAMS)

## AWMF

Asian Women Mathematicians Forum  
Bali, Indonesia  
2016

## SEAWM2019

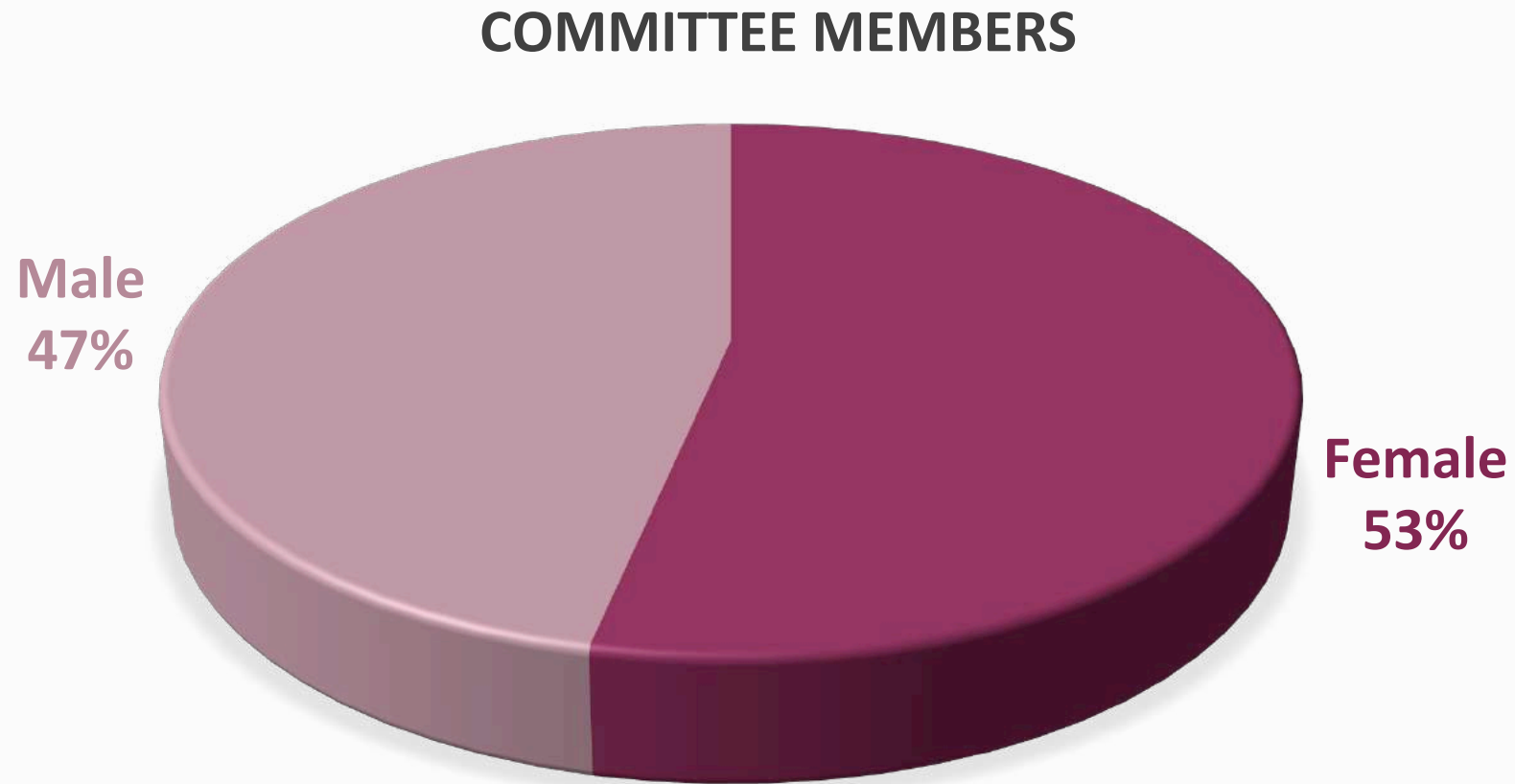
South East Asian Women Meeting 1  
Yogyakarta, Indonesia  
2019

## SEAWN2

South East Asian Women Meeting 2  
Indonesia; Online meeting  
10 July 2021

# Malaysian Mathematical Sciences Society (PERSAMA)

## WOMEN IN MATHEMATICS



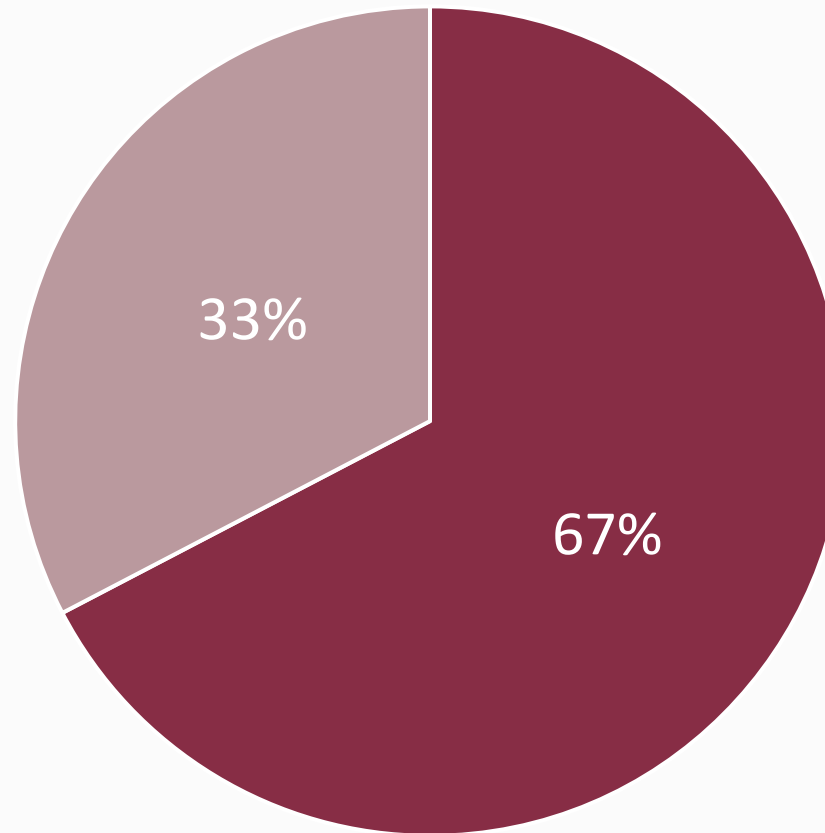
# WOMEN IN MATHEMATICS

## ACADEMIC STAFF



# WOMEN IN MATHEMATICS

## ACADEMIC STAFF

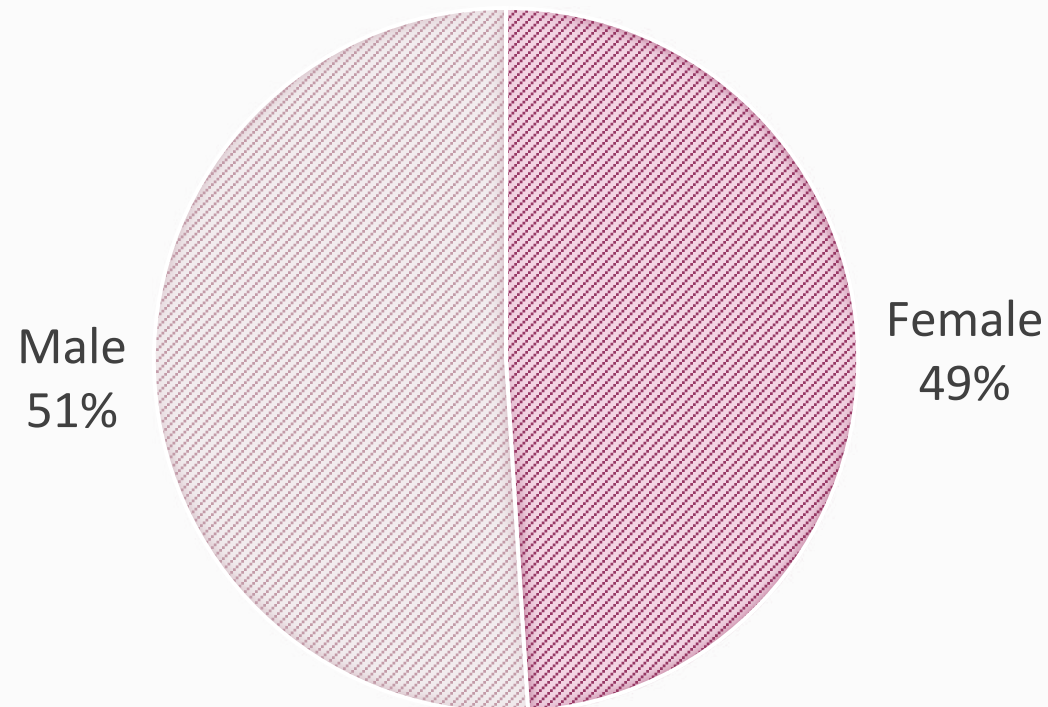


■ Female ■ Male

# WOMEN IN MATHEMATICS

## RESEARCHERS

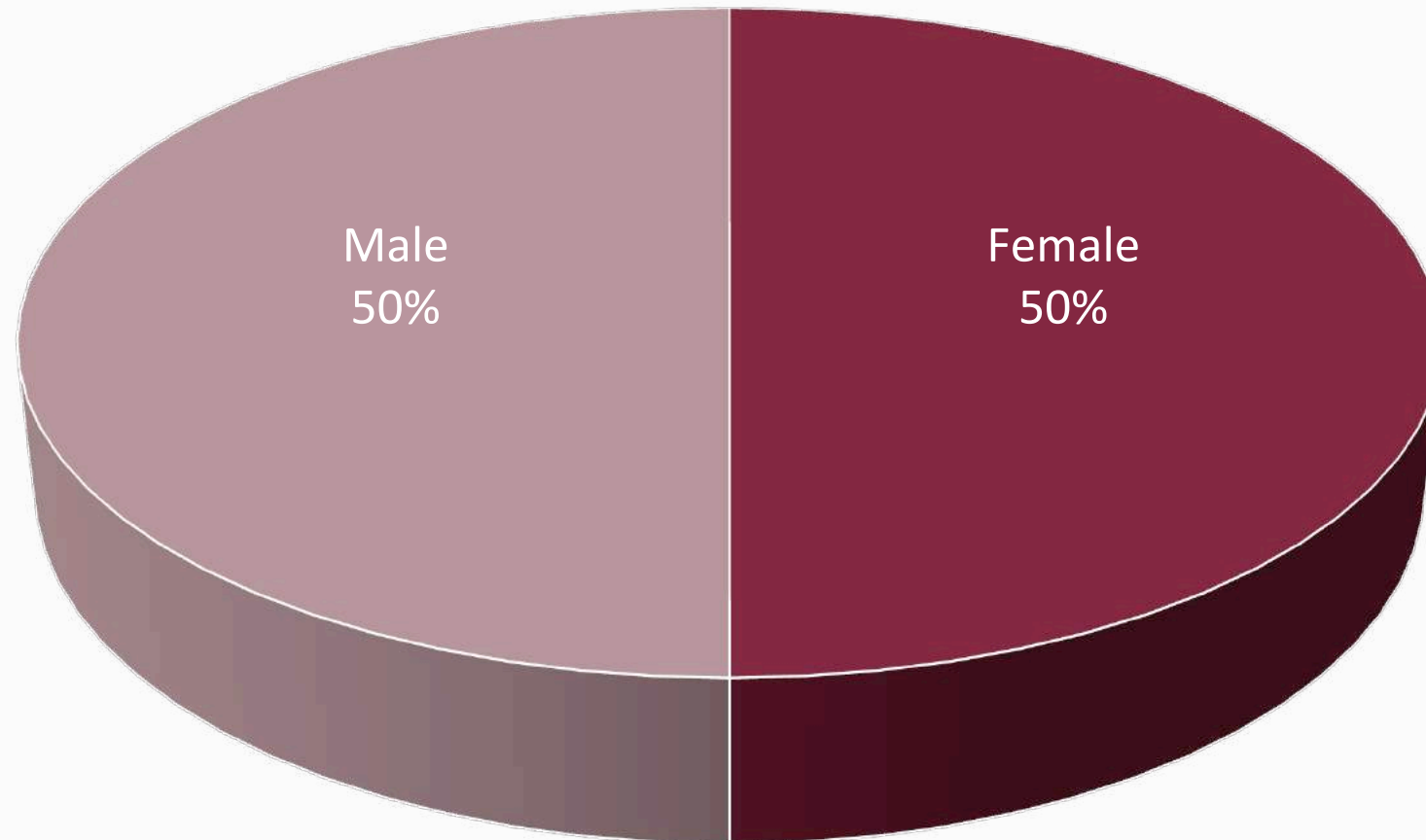
Female Male



# WOMEN IN MATHEMATICS

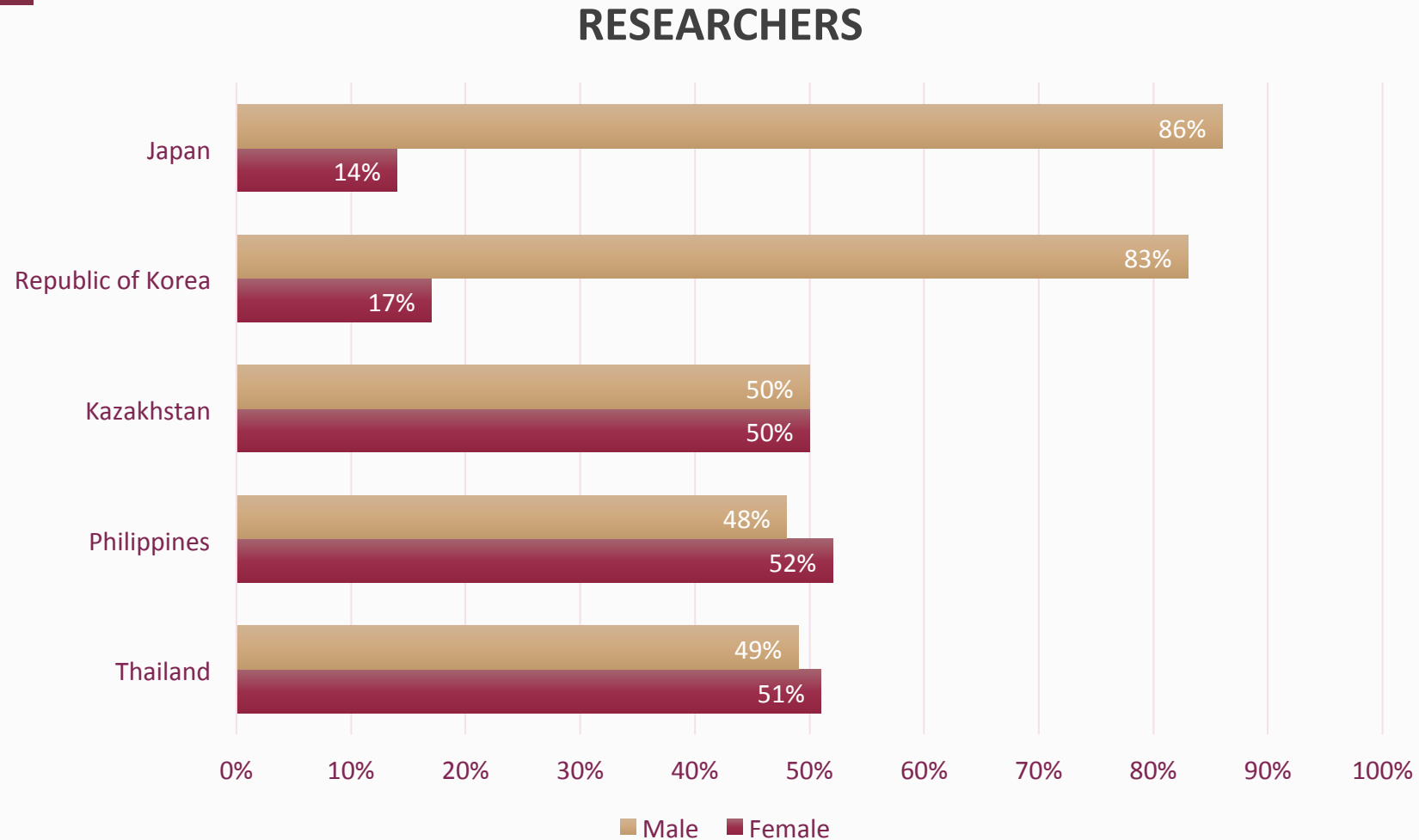
Department of Mathematics, Universitas Airlangga, Indonesia

## ACADEMIC STAFF

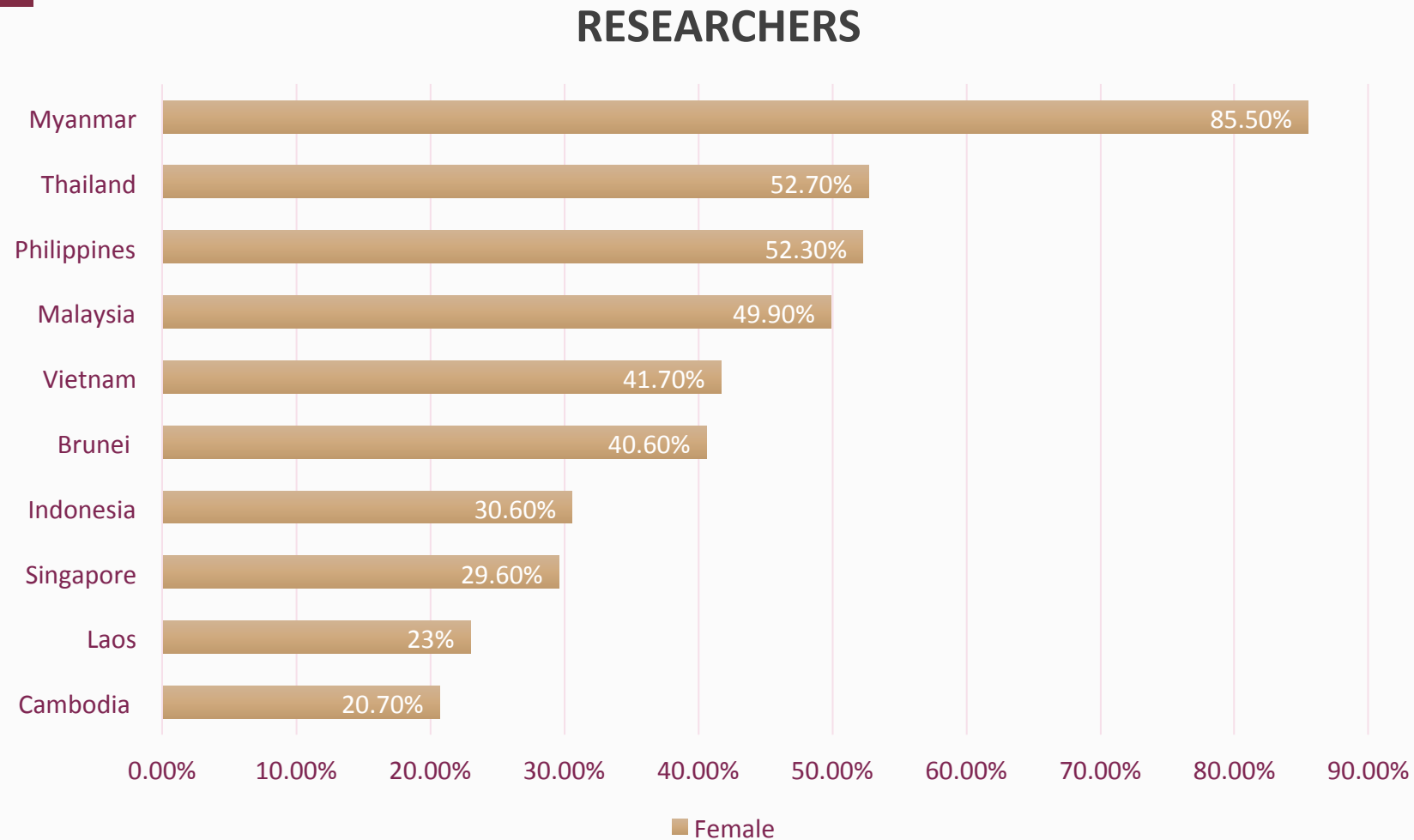


# Science, Technology, Engineering & Mathematics (STEM) in Asia

## Percentage of Female Researchers



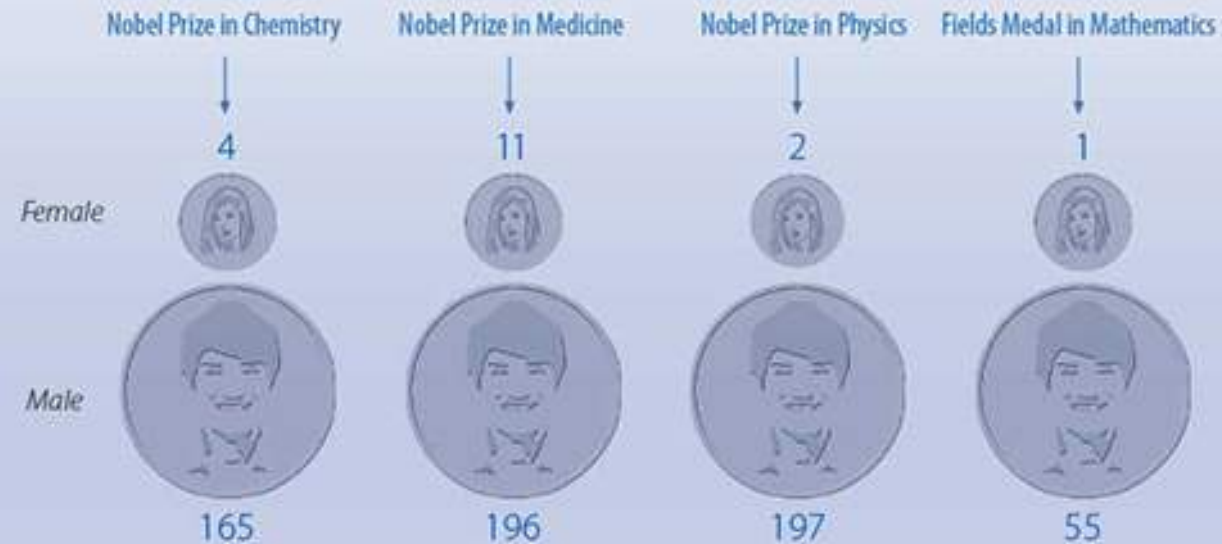
# Percentage of Female Researchers



# WOMEN IN MATHEMATICS

## Science, Technology, Engineering & Mathematics (STEM)

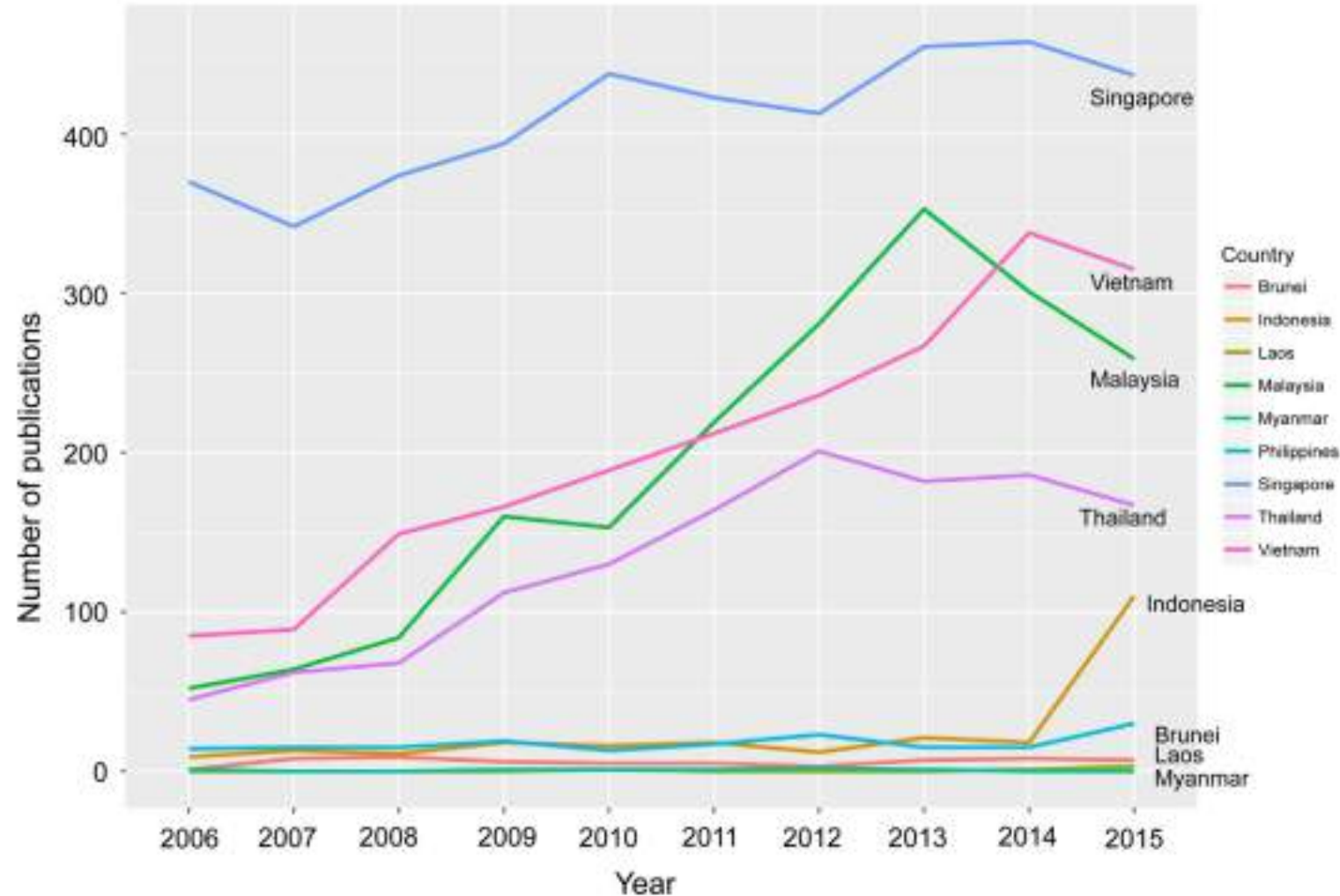
Only **a tiny proportion of women** are awarded with the most prestigious prizes in STEM fields



Source: Nobelprize.org, 2014; IMU, 2014

# WOMEN IN MATHEMATICS

Trend of mathematics research output from Association of Southeast Asian Nations countries 2006–2015





## PROF. DR. NOR HANIZA SARMIN



<https://people.utm.my/nizasarmin/>



[nhs@utm.my](mailto:nhs@utm.my)



Niza Sarmin



Niza Sarmin

Credit:  
Athirah Zulkarnain

