


## Curriculum Vitae for XMUM Official Website

	Name	<b>Siti Balqis Binti Samdin</b>
	Current Position	Assistant Professor
	Administrative Position (if applicable)	Curriculum Review Committee PLO Attainment Coordinator
	Room No.	A1#439
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### BIOGRAPHY

Dr Siti Balqis is an Assistant Professor in the Electrical and Electronics Engineering Department, Xiamen University Malaysia (XMUM). Before joining XMUM, she was a postdoctoral research fellow at King Abdullah University of Sciences and Technology, KSA, and a research assistant at Universiti Teknologi Malaysia. She received her PhD in Biomedical Engineering and Bachelor of Engineering (Biomedical) from Universiti Teknologi Malaysia. She is a registered Graduate Engineer with the Board of Engineers Malaysia.

### RESEARCH INTERESTS

Time series modelling and analysis, biomedical signals analysis, digital signal processing, pattern recognition, brain-computer interface, dynamic brain connectivity analysis.

### EDUCATIONAL BACKGROUND

- PhD in Biomedical Engineering, Faculty of Engineering, UTM (2017)
- Bachelor of Engineering (Biomedical), Universiti Teknologi Malaysia (2011)

### WORKING EXPERIENCE

- Assistant Professor at Xiamen University Malaysia (2020 – present)
- Postdoctoral Research Fellow at Biostatistics Group, CEMSE Division, King Abdullah University of Sciences and Technology, Kingdom of Saudi Arabia (2018 to 2019).
- Research Assistant at Centre for Biomedical Engineering, Universiti Teknologi Malaysia (2017-2018).

### RESEARCH EXPERIENCE / GRANTS

- Chewing Detection and Calorie Monitoring using Wearable Sensor (Xiamen University Malaysia Research Fund) – Co-Researcher
- Characterizing Changes in Community Structure of Complex Networks Using Dynamic Stochastic Block Models to Identify Aberrant Brain Connectivity (FRGS) – Co-researcher

## REPRESENTATIVE PUBLICATIONS

- Detecting Dynamic Community Structure in Functional Brain Networks Across Individuals: A Multilayer Approach in IEEE Transactions on Medical Imaging.
- Statistical Model for Dynamically-Changing Correlation Matrices with Application to Brain Connectivity in Journal of Neuroscience Methods, Elsevier.
- A Markov-Switching Model Approach to Heart Sound Segmentation and Classification in IEEE Journal of Biomedical and Health Informatics.
- Estimating Dynamic Connectivity States in fMRI Using Regime-Switching Factor Model in IEEE Transactions on Medical Imaging.
- A Unified Estimation Framework for State-Related Changes in Effective Brain Connectivity in IEEE Transactions on Biomedical Engineering.

## HONORS/AWARDS

- Silver Award, 17<sup>th</sup> Industrial Art and Technology Exhibition (INATEX), Universiti Teknologi Malaysia (Nov 2015). For invention of *Brain Connectivity Analysis of Motor Imagery for Brain Computer Interface*.
- Silver Award, PECIPTA, 13<sup>th</sup> International Conference and Exposition on Inventions by Institutions of Higher Learning, Kuala Lumpur. For invention of *Motor Imagery for Brain Computer Interface System*.
- Silver Award, Malaysia Technology Expo 2013, Kuala Lumpur. For invention of *Motor Imagery for Brain Computer Interface System*.