

BIOGRAPHY OF PROF DR HASLINDA IBRAHIM

Dr. Haslinda Ibrahim is a mathematics professor at the School of Quantitative Sciences, Universiti Utara Malaysia, specializing in Combinatorial Design Theory, Graph Theory, and STEM education. She holds a BSc (Mathematics), MSc (Mathematics), and PhD (Mathematics) from Michigan State University, Indiana State University, and Southern Illinois University, respectively.

Dr. Ibrahim's research focuses on developing combinatorial methods based on nature-inspired designs, such as the butterfly triple system and wing sequence, into new design formulations. In addition to her research, Dr. Ibrahim is passionate about STEM outreach programs that foster critical thinking. She is renowned for creating the “Explore, Discover and Develop (ExDiD)” instructional design model, a structured process for teaching and learning. Dr. Ibrahim has conducted numerous talks and workshops on ExDiD-related processes both nationally and internationally.

Professor Haslinda has been involved in a total of 35 research projects, leading as the principal investigator for 13 of them. Her scientific publications, comprising over 120 papers, have been indexed on Web of Science or Scopus. Furthermore, she has authored three books, four book chapters, four STEM modules, and two monographs. Additionally, she has served as an editor for five AIP Scopus proceedings and has been granted twelve copyrights. During her academic career, Professor Haslinda has also served as a visiting scholar at the University of Bahrain in the Kingdom of Bahrain, Al Akhawayn University in Ifrane, Morocco, and Tashkent International University Of Financial Management and Technologies. Presently, she is the managing editor of Mathematical Science Letter and a member of the editorial board of the Journal of Information and Communication Technology (JICT).

Throughout her career, she has held various administrative positions such as Deputy Dean for Postgraduate and Research, Head of Mathematics Department, Coordinator for Postgraduate Studies, Head of Publication Council of Professors, Head of Education, Culture and Nation Building Council of Professors, Head of Publication, Research and Commercialization, and Head of Strategic Planning. Currently, she serves as the Dean for the School of Quantitative Sciences and is the President of the National STEM Association for the Kedah chapter.

Due to her significant contributions to research, publications, and teaching, Professor Haslinda has received several awards, including the Dissertation Research Award (Southern Illinois University) and the Outstanding PhD Teaching Assistant (Southern Illinois University). She has also been recognized with the Excellence Service Award (Universiti Utara Malaysia), the Champion for Transformative Teaching Category Anugerah Khas YB Menteri Pendidikan Malaysia Rekabentuk Kurikulum Dan Penyampaian Inovatif (AKRI2019), and the Special Recognition Award for the Design Category, Persatuan Matematik Malaysia (PERSAMA2021). Additionally, she was awarded the Gold Medal in the International Exhibition and Symposium on Productivity, Innovation, Knowledge, Education, and Design (I-SPIKE 2021) – ABRA-Maths Early Mathematics Learning via Mini Tennis. In 2023, she was honored with Distinguished Teacher Award for Universiti Utara Malaysia.