Wichanon Sae-jie

Curriculum Vitæ (February 20, 2024)

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Nationality: Thai

EDUCATION

Ph.D. in Mathematics (International Program)   2019-Present
Mahidol University, Bangkok, Thailand

- Cumulative GPA: 4.00/4.00

Master of Science in Mathematical Science   2016-2018
University of Central Florida, Orlando, Florida, USA

- Cumulative GPA: 3.53/4.00

Master of Science in Mathematics   2013-2016
Ohio University, Athens, Ohio, USA

- Cumulative GPA: 3.58/4.00

Bachelor of Science in Mathematics (First Class Honors)   2008-2012
Prince of Songkla University, Hat Yai, Songkhla, Thailand

- Cumulative GPA: 3.74/4.00

PUBLICATIONS

Sae-Jie W, Supasai S, Kivimaki M, et al. Triangulating evidence from observational and Mendelian randomization studies of ketone bodies for cognitive performance. *BMC Med.* 2023;21(1):340.

Sae-Jie W, Tangcharoen T, Vathesatogkit P, Aekplakorn W, Charoen P. Mendelian randomization study of the effect of coronary artery calcification on atherosclerotic cardiovascular diseases. *Sci Rep.* 2022;12(1):14829.

Manuscript (in progress) "Roles of neuroinflammation and oxidative stress in mediating the causal effect of $3-\beta-$hydroxybutyrate on cognitive performance: A Multivariable Mendelian randomization study"

PRESENTATIONS

Conference "Association of ketone bodies on cognitive performance: two-sample Mendelian randomization study" *(Merit oral presentation award)* 2023
The second Annual Conference of the Thai Society of Human Genetics 2023, Bangkok, Thailand

Conference "Mendelian Randomization study of the effect of coronary artery calcification on cardiovascular diseases" 2020
The International Conference in Mathematics and Applications, Bangkok, Thailand

Conference "A model of island community dynamics incorporating niches and species rank." *presented with Associate Professor Andrew L. Nevai, Ph.D.* 2020
AMS Spring Southeastern Sectional Meeting, University of Virginia, Virginia, USA

Mathematical Seminar "Study of Bayesian weighted Mendelian randomization for causal inference based on summary statistics" 2020
Mahidol University, Bangkok, Thailand

Mathematical Seminar "Study of statistical considerations in bioequivalence of two areas under the concentration-time curves obtained from serial sampling data" 2019
Mahidol University, Bangkok, Thailand

Mathematical Biology Seminar "A mathematical model of meta-population dynamics that incorporates niches and species ranking" 2019
University of Central Florida, Florida, USA

Conference "Analyze a Mathematical Model of the Immune System Response to Tumor Cells" 2011
The 37th Congress on Science and Technology of Thailand, Bangkok, Thailand

Mathematical Seminar "Composition of Magic Squares and Pandiagonality" 2011
Prince of Songkla University, Songkhla, Thailand

CONFERENCE AND WORKSHOP GRANTS

Mathematics in the City Beautiful: PDEs, SDEs, Control Theory, and Applications to Finance and Life Sciences Dec. 2018
University of Central Florida, Florida, USA

Satellite Meeting: A Pan-Hemispheric Celebration of Mathematics in Miami by The International Congress of Mathematicians (ICM) Jul. 2018
University of Miami, Florida, USA

Frontiers of Mathematical Biology: Modeling, Computation and Analysis   May 2018
University of Central Florida, Florida, USA

American Mathematical Society (AMS) Fall Southeastern Sectional Meeting   Sept. 2017
Orlando, Florida, USA

RESEARCH EXPERIENCES

Ph.D. thesis (in progress) "The role of ketone bodies in neurodegenerative related outcomes" *under supervision of Assistance Professor Suntaree Unhapipat, Ph.D.*   2019-Present
Faculty of Mathematics, Mahidol University, Bangkok, Thailand

Project "A mathematical model of meta-population dynamics that incorporates niches and species ranking" *under supervision of Associate Professor Andrew Nevai, Ph.D.*   2018-2019
University of Central Florida, Florida, USA

Project "The comparison of interpolation polynomial results of influenza Virus B in the United States" *under supervision of Professor Ram Mohapatra, Ph.D.*   2017
University of Central Florida, Florida, USA

Project "The discrete dynamical system models of neuronal dynamics" *under supervision of Professor Todd Young, Ph.D.*   2014
Ohio University, Ohio, USA

Senior project "Analyze a mathematical model of the tumor cells immune system response" *under supervision of Assistance Professor Athassawat Kammanee, Ph.D. and Associate Professor Jantana Ayaragarnchanakul, Ph.D.*   2011-2012
Prince of Songkla University, Songkhla, Thailand

Project on combinatorics: Magic squares and Latin squares *under supervision of Professor Chia Gek Ling, Ph.D.*   Summer 2011
University of Malaya, Kuala Lumpur, Malaysia

Project "On the sum of consecutive powers" *under supervision of Associate Professor Supawadee Preuksapitak, Ph.D.*   2009
Prince of Songkla University, Thailand

TEACHING EXPERIENCES

Graduate Teaching Assistant   2019-Present
Department of Mathematics, Mahidol University, Bangkok, Thailand

Graduate Teaching Assistant *The recitation classes of Calculus 1*   2017-2018
Department of Mathematics, University of Central Florida, Florida, USA

Graduate Teaching Assistant Training Program   2015
Department of Mathematics, Ohio University, Ohio, USA

Teaching Assistant and Grader   2011-2012
Department of Mathematics and Statistics, Prince of Songkla University, Songkhla, Thailand

EXTRACURRICULAR ACTIVITIES

Committee of Mahidol University Graduate Student Council   2024-Present
Mahidol University, Bangkok, Thailand

Committee of the 22nd-24th Science Project Exhibition   2021-2023
Mahidol University, Bangkok, Thailand

President of Thai Students Association   2014-2015
Ohio University, Ohio, USA

Head of Mathematics and Statistics Club   2010-2011
Faculty of Science, Prince of Songkla University, Songkhla, Thailand

Head of Academic Science Club   2008-2009
Faculty of Science, Prince of Songkla University, Songkhla, Thailand

รับรองสำเนาถูกต้อง

วิชานนท์ แซ่เจีย.

(นายวิชานนท์ แซ่เจีย)