

PANYADA SRIPATURAD

28 years old | Nationality - Thai

sripaturad.pan@gmail.com | +662 577 0880 | 119/203 Lanceo-crib, Bangkruai, Nontaburi, Thailand

EDUCATION

Doctor of Philosophy, 3.85/4.00 (International program)

Mahidol University

Aug 2018 - May 2024

- Research interest : Mathematical models in nanotechnology to predict the possible geometry and volume of nano-scaled structures as well as determining the equilibrium energy of the system.
- Short-term research at School of Information and Physical Science, University of Newcastle, Australia, for 10 months from September 2022 to June 2023.
- Oral presentation in the topic of Design of schwarzite templates based on energy minimization of surfaces at NSW ANZIAM Branch Meeting 2022, University of Technology Sydney, Sydney, Australia.
- Oral presentation in the topic of effect of graphene on the inversion of corannulene using a continuum approach with the Lennard-Jones potential at NSW ANZIAM Mid-Year Meeting 2023 (Virtual).

Bachelor Degree, 3.64/4.00 (Distinctive program with first class honors)

Mahidol University

Aug 2014 - Jun 2018

- Received a scholarship from the faculty of science, Mahidol University to do short-term research for 3 months at the University of Wollongong, Australia in 2016.
- Received the Development and Promotion of Science and Technology Talents Project, Thai government scholarship in 2017.
- Attended the 19th Science Project Exhibition at Mahidol University, and had a short talking poster presentation in 2018.
- Received a research scholarship of 10,000 thb from the faculty of science, Mahidol University.

PUBLICATIONS

- **Sripaturad P**, Alshammari NA, Thamwattana N, McCoy JA, Baowan D. Willmore energy for joining of carbon nanostructures. *Philos Mag.* 2018;98(16): 1511-24. doi:10.1080/14786435.2018.1442029 (SJR2018 - Q2 in Condensed Matter Physics)
- **Sripaturad P** and Baowan D. Joining curves between nano-torus and nanotube: mathematical approaches based on energy minimization. *Z. Angew Math Phys.* 2021;72(1). doi: 10.1007/s00033-020-01451-0 (SJR2021 - Q1 in Applied Mathematics)
- **Sripaturad P** and Baowan D. Design of schwarzite templates based on energy minimization of surfaces. *Carbon Trends.* 2021;5:100139. doi: 10.1016/j.cartre.2021.100139 (SJR2022 - Q2 in Chemistry)
- **Sripaturad P**, Karton A, Stevens K, Thamwattana N, Baowan D and Cox BJ. Catalytic effect of graphene on the inversion of corannulene using a continuum approach with the Lennard-Jones potential. *Nanoscale Advances.* 2023;5(17):4571-8. doi: 10.1039/d3na00349c (SJR2022 - Q1 in Materials Science (miscellaneous))
- **Sripaturad P**, Thamwattana N, Karton A, Stevens K, Baowan D. Adsorption of corannulene on graphene. *Carbon Trends.* 2024 Jun;15:100334. doi:10.1016/j.cartre.2024.100334 (SJR2022 - Q2 in Chemistry)
- Thamwattana N, Karton A, **Sripaturad P**, Stevens K, Baowan D. Orientation of corannulenes inside carbon nanotubes. *Advanced Theory and Simulations.* 2024;7(2):2300554. doi:10.1002/adts.202300554 (SJR2022 - Q1 in Modeling and Simulation)

CONFERENCES / PRESENTATIONS

- Sripaturad P. Determination of join regions between two carbon nanostructures using calculus of variation and Willmore energy. *The 19th Science Project Exhibition (SciEx2018)*, Thailand. 31st May, 2018.
- Sripaturad P. Joining of two carbon nanostructures using mathematical approaches. *DPST Online Conference on Science and Technology 2020 (DPSTcon2020)*, Thailand. 4th July, 2020.
- Sripaturad P. Design of schwarzite templates based on energy minimization of surfaces. *NSW ANZIAM Branch meeting 2022*. University of Technology Sydney, Sydney, Australia. 30th November 2022.
- Sripaturad P. Catalytic effect of graphene on the inversion of corannulene using a continuum approach with the Lennard-Jones potential. *NSW ANZIAM Mid-Year Meeting 2023 (Virtual)*, Australia. 28th June 2023.

RESEARCH EXPERIENCE

Mathematical modeling in Nanotechnology, Calculus of Variation, Numerical methods, Willmore energy function, Lennard-Jones potential function

TEACHING EXPERIENCE

Experiencing in teaching Algebra, Geometry, Calculus, Statistic and Probability

Mahidol University

Jun 2016

- Appointed the lecturer of Pre-University mathematics class for freshmen at Mahidol University, Kanchanaburi campus

BSN printing house Co., Ltd. (Freelance)

Mar 2020 - present

- Conducted the online high school mathematics courses (Thai program)
- Teaching some mathematics tricks available on Tiktok application account 'Bestmathtips' which currently has 363.5k followers and 6.9M likes
- Write and Develop the high school mathematics short note and the sales are over 1000 copies

Mathpresso (Thailand) Co., Ltd. (Freelance)

Aug 2021 - Apr 2022

- Conducted small group classes (5-15 students) for primary school students

Learn Corporation Co.,Ltd. (Freelance)

May 2022 - present

- Conducted one on one and group mathematics classes (5-15 students) for international program high school students e.g., GED, SAT, IGCSE, A-level, AP-calculus and IB curriculum
- Co-authors in an intensive coursebook for IGCSE mathematics
- Appointed guest speaker in the topic of university pathways for international program students

AWARDS

- The Best Presentation Award for the talk in the topic of Joining of two carbon nanostructures using mathematical at the DPST Online Conference on Science and Technology 2020.
- The Best One On One Teacher from Ignite by Ondemand (LEARN Corporation Public Co.,. Ltd.)

SKILLS AND OTHER EXPERIENCES

- Maple program
- Be a part of student committee of faculty of science , Mahidol University, as a secretary
- Certificated 'Effective Presentation Technique (English Version)' course at Mahidol University
- Certificated 'Digital Literacy Training' course at Mahidol university
- Certificated 'Special Lectures On Brain Coaches For Innovative Ideas' course at Mahidol University
- Certificated 'Transformative Learning Skills : Self Discovery (English Version)' course at Mahidol University