

WUTIPONG PREECHAPHONKUL



วutipong ปรีชาพลกุล

Sex: Male Status: Single Age: 28

Date of Birth : 11 July 1992

Nationality: Thai

Religion: Buddhism

CONTACT INFORMATION



99 Village No.10

Rangsit-Nakhon Nayok Rd.,

Ban Na District, Nakhon Nayok, 26110



+66 (0) 81-777-1397



JOB.WUTIPONG@GMAIL.COM

AWARD

© Special Prize on Stage From Inventions Hong Kong & Invention Geneva, 47th, International Exhibition and Invention of Geneva 2019, Switzerland.

© Silver Medal, 47th International Exhibition and Invention of Geneva 2019, Switzerland.

SKILLS SUMMARY

Computer Simulation
(COMSOL Multiphysics)

CAD Modeling
(SOLIDWORK)

Teaching
& Communication

FIELD OF INTEREST

- ▶ Microwave Ablation for Cancer Treatment
- ▶ Heat and Mass Transfer in Biological Tissue
- ▶ Porous Media Theory and Application in Biological Tissue
- ▶ Electromagnetic Wave Propagation in Biological Tissue
- ▶ Finite Element Method (FEM) for Solving Complex Problems
- ▶ Numerical Modeling for Heat and Mass Transfer in Porous Media

EDUCATION BACKGROUND

2011-2014 Bachelor of Engineering (B.Eng.)

Mechanical engineering, Thammasat University

Grade - The Second class honors

2015-2021 Doctor of Philosophy (Ph.D.)

Engineering, Thammasat University

EXPERIENCE

- ▶ **Student Exchange Program, Kobe University ,Japan (2015)**
 - ▶ I Got the Scholarship From Japan Science and Technology Agency (JST) to Kobe University, Japan
- ▶ **Teaching Assistant, Thammasat University, Thailand (2016-2020)**
 - ▶ Teaching Assistant in Heat-Transfer and Special Topic: Numerical Heat Transfer Courses in Faculty of Engineering, Thammasat University, Thailand
- ▶ **Research Assistant, Thammasat University, Thailand (2016-2020)**
 - ▶ Numerical Modeling and Experimental for Basic and Applied Research
- ▶ **Thammasat Postdoctoral Fellow (2021)**

PUBLICATIONS

- ▶ Pongpakpien S., **Preechaphonkul W.**, And Rattanadecho P., "Effects of Thermal and Electrical Properties on Porous Liver During Microwave Ablation Using Microwave Coaxial Slot Antenna", International Journal of Heat and Technology, Vol. 38, No. 2, June, 2020, Pp. 361-370: Impact Factor: 1.9
- ▶ **Preechaphonkul W.** and Rattanadecho P., "The Comparative of the Performance for Predicted Thermal Models During Microwave Ablation Process Using a Slot Antenna", Case Studies in Thermal Engineering (Accepted), Impact Factor: 4.01
- ▶ **Preechaphonkul W.** And Rattanadecho P., "3D Numerical Analysis of Focused Microwave Ablation for the Treatment of Patients With Localized Liver Cancer Embedded With a Vertical and Horizontal Blood Vessel", Science & Technology Asia (Accepted)

GRANT

- ▶ Thailand Science Research and Innovation (TSRI) Under the Royal Golden Jubilee Ph.D. Program (โครงการปริญญาเอกกาญจนาภิเษก, คปก.) Contract No. PHD/0055/2558
- ▶ Internship Ph.D. Student Program at the University of California, Riverside, Under Supervising by Professor Kambiz Vafai.
- ▶ Ph.D. Thesis Title "The Characteristics of Thermal Respond During Microwave Ablation Process Using Slot Antenna in Deformable Liver Tissue: Bioheat Model Embedded With Large Blood Vessels & Porous Liver Model" Advisor : Prof.Dr. Phadungsak Rattanadecho