

CURRICULUM VITAE

GENERAL INFORMATION

Name: Mr. Paisan Surname: Kanthang
Date of Birth: 09 March 1980 Age: 29 yrs.
Place of Birth: Latkrabang, Bangkok
Race: Thai Nationality: Thai Religion: Buddhism
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EDUCATION BACKGROUND

Education Level	Name of Institute	Location	Degree	Major	Year Entrance	Year Passed
Bachelor Degree	Naresuan University	Phitsanulok	B.Sc.(Physics)	Physics	1997	2000
Master Degree	Mahidol University	Bangkok	M.Sc.(Physics)	Physics	2003	2004
Philosophy Degree	Mahidol University	Bangkok	Ph.D.(Physics)	Physics	2005	2008

THESIS AND PROJECTS

- High School, Academics Year: 1996
Project: The Relation of The Temperature and Work Function.
- Bachelor Degree, Academics Year: 2000
Senior Project: A Study of The Deuteron Problem in general state.
- Master Degree, Academics Year: 2004
Thesis: The Dynamics of The Partitioning of The Bacteria: With and Without an External Field
- Philosophy Degree, Academics Year: 2008
Thesis: Biophysical aspects of the Min protein dynamics and pattern formations

INTERNATIONAL PUBLICATIONS

- Sriyab S, Yojina J, Ngamsaad W, **Kanthang P**, Modchang C, Nuttavut N, Lenbury Y, Krittanai C, Triampo W. Mesoscale modeling technique for studying the dynamics oscillation of Min protein: Pattern formation analysis with lattice

- Boltzmann method. *COMPUTERS IN BIOLOGY AND MEDICINE* 2009; **39**: 412-424. (Impact factor 1.170)
2. Unai S, **Kanthang P**, Junthorn U, Ngamsaad W, Triampo W, Modchang C, Krittanai C. Quantitative analysis of time-series fluorescence microscopy using a spot tracking method: application to Min protein dynamics. *BIOLOGIA* 2009; **64**: 27-42. (Impact factor 0.207)
 3. Junthorn U, Unai S, **Kanthang P**, Ngamsaad W, Modchang C, Triampo W, Krittanai C, Triampo D, Lenbury Y. Single-Particle Tracking Method for Quantitative Tracking and Biophysical Studies of the MinE Protein. *JOURNAL OF THE KOREAN PHYSICAL SOCIETY* 2008; **52**: 639-48. (Impact factor 1.204)
 4. Modchang C, Triampo W, **Kanthang P**, Junthorn U, Unai S, Ngamsaad W, Nuttavut N, Triampo D, Lenbury Y. Stochastic Modeling of External Electric Field Effect on *Escherichia coli* Min Protein Dynamics. *JOURNAL OF THE KOREAN PHYSICAL SOCIETY* 2008; **53**: 851-62. (Impact factor 1.204)
 5. Ngamsaad W, Triampo W, **Kanthang P**, Modchang C, Nuttavut N, Tang IM, Lenbury Y. A lattice Boltzmann method for modeling the dynamic pole-to-pole oscillations of Min proteins for determining the position of the mid-cell division plane. *JOURNAL OF THE KOREAN PHYSICAL SOCIETY* 2005; **46**: 1025-30. (Impact factor 0.828)
 6. Modchang C, **Kanthang P**, Triampo W, Ngamsaad W, Nuttavut N, Tang IM, Lenbury Y. Modeling of the Dynamic Pole-to-Pole Oscillations of the Min Proteins in Bacterial Cell Division: The Effect of an External Field. *JOURNAL OF THE KOREAN PHYSICAL SOCIETY* 2005; **46**: 1031-6. (Impact factor 0.828)

CONFERENCES AND PROCEEDINGS

1. **Kanthang P**, Nattavut N and Triampo W. Image Enhancement for Characterization of Protein Oscillation in Cell Division Process of *E.coli*. The 33rd National Conference on Optics and Applications (NCOA), October 15, 2008, Srinakharinwirot Unbiversity and King Mongkut's University of Technology (Thonbiri), Thailand.
2. Unai S, **Kanthang P**, Junthorn U, Ngamsaad W, Nattavut N, Triampo W and Krittanai C. SINGLE PARTICLE TRACKING: APPLICATION TO STUDY MinD PROTEIN OSCILLATION IN LIVE *Escherichia coli*. 33rd Congress on Science and Technology of Thailand (STT.33), October 18 - 20, 2007, Walailak University, Nakhon Si Thammarat, Thailand.

3. Junthorn U, Unai S, **Kanthang P**, Ngamsaad W, Triampo W, Modchang C, Krittanai C, and Lenbury Y. HOWTO TRACK MinE PROTEIN OSCILLATIONS IN *Escherichia coli*" 33rd Congresson Science and Technology of Thailand (STT.33), October 18 - 20, 2007, Walailak University, Nakhon Si Thammarat, Thailand.
4. Unai S, **Khantang P**, Junthorn U, Ngamsaad W, Nattavut N, Triampo W, and Krittanai C. Biophysical Study of MinD Protein Oscillation in *E.coli*. SIAM PHYSICS CONGRESS 2007, March 22 –24, Nakorn Pathom, THAILAND
5. Ngamsaad W, Triampo W, **Kanthang P**, Tang IM, Nuttawut N, and Modjung C. A lattice Boltzmann method for modeling the dynamic pole-to-pole oscillations of min proteins for determining the position of the midcell division plane 2nd International Conference on Mesoscopic Methods in Engineering and Science (ICMMES), July 26-29, 2005, the Hong Kong Polytechnic University (HKPU), Hong Kong, China.

GROUP MEMBERS

- 1997-2000 The Tah Poe Group of Theoretical Physics
 1998-2000 Environment Conservation Group
 2004-Present R&D Biological and Environmental Physics Group

AWARDS

1. 2nd General Science Project (High School): Science Project (The Central part Shell), Ministry of Science and Technology
2. 2nd General Science Project (High School): Department of General Education, Ministry of Education
3. 1st General Science Project (High School): Group 5th The Central part School of Department of General Education, Ministry of Education

SCOLARSHIPS

- 2003-2004 Research Assistance, Mahidol University
 2004-2005 Teacher Assistance, Mahidol University
 2006-2008 Strategic Scholarships for Frontier Research Network, for Ph.D. Program, Commission on Higher Education (CHE)

EXPERINCES

1998-2000	Teacher Assistance, Naresuan University
2001-2002	Academician, Watanaphanit Publishing Co.,Ltd.
2003-2004	Research Assistance, Mahidol University
2004-2005	Teacher Assistance, Mahidol University
2008- Present	Lecturer, Rajamangala University of Technology Phra Nakhon

PERSONAL REFERENCES

Name-Surname	Relationship	Address	Position	Phone No.
Mr. Charan Promsuwan	Senior Project Advisor	Naresuan University	Associate Professor	0-5526-1000 ext.3501-2
Mr. Atit Hlaowanitwatthana	Teacher	Naresuan University	Associate Professor	0-5526-1000 ext.3501-2
Major. Lert Kesorncam	Department Chief	Wattanaphanit Publishing Co.,Ltd.	Academic Advisor	0-2222-4543 ext.156
Dr. Wannapong Triampo	Thesis Advisor	Mahidol University	Associate Professor	0-22015853

PRESENT AND INTERESTING RESEARCHS

1. Biophysics and System Biology
2. Image Processing for sub-cellular level
3. Fractional Dynamics
4. Synergetics and Nonextensive Statistical Mechanics(Tsallis's Theory)