

Personal Information

First Name: MONAMORN
Last Name: PRECHARATTANA
Date of Birth: June 04, 1984
Place of Birth: Bangkok, Thailand
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Core Competencies

- Teaching
Physics I, II
Mechanics
Mathematics for Physicists
Classroom Management
Measurement and Evaluation
Thesis/ Dissertation Advising
- Research
Cellular automaton in biological and agricultural systems
Physic education

Education

2007-2011	Mahidol University, Thailand
<i>Degree:</i>	Ph.D. (Physics), (GPA 3.73)
<i>Dissertation:</i>	A Biophysical Cellular Automata Model of CD4 ⁺ T Cell Dynamics in HIV/AIDS Infection: Stochastic Approach
<i>Advisor:</i>	Assoc. Prof. Wannapong Triampo, Ph.D.
<i>Grant:</i>	The Strategic Scholarships for Frontier Research Network, for Ph.D. Program, Commission on Higher Education (CHE), Thailand
2006-2007	Kasetsart University, Thailand
<i>Degree:</i>	Grad.Dip. (Teaching Science Profession), (GPA 3.85)
<i>Senior project:</i>	Enhancing of Achievement in Physics for the Mattayom 4 Students through a Mastery of Learning
<i>Advisor:</i>	Asst. Prof. Narumol Yutakhom, Ph.D. Pongprapan Pongsophon, Ph.D.
<i>Grant:</i>	The Project for Promotion of Science and Mathematics Teacher, Institute for the Promotion of Teaching Science and Technology (IPST), Thailand
2002-2006	Kasetsart University, Thailand
<i>Degree:</i>	B.Sc. with 2 nd class honors (Physics), (GPA 3.38)
<i>Senior project:</i>	Probability of Finding Strange Quarks in Stars, or Strange Stars
<i>Advisor:</i>	Maneenate Wechakama, M.Sc.
<i>Grant:</i>	The Project for Promotion of Science and Mathematics Teacher, Institute for the Promotion of Teaching Science and Technology (IPST), Thailand

Academic Position

2011-Present Lecturer of Institute for Innovative Learning, Mahidol University, Thailand

Research Projects

- 2016-Present Development of stochastic cellular automata for investigation of rice's growth rate and yield prediction in system of rice intensification for Khao Dawk Mali 105 rice line
Grant: Government Budget Research Grant (2017-2018). National Research Council of Thailand, Thailand
- 2016-2018 Development of Learning Innovation Based on STEM Education for Promoting Learning Skills in Physics for 21st Century Learners
Grant: (2016-2018) Thailand Center of Excellence in Physics, Thailand
- 2011-Present Medical modeling and simulation to develop a stochastic cellular automaton model: effects of cell-mediated immunity to eradicate HIV-1 infection
Grant: TRF-CHE Research Grant for New Scholar (2016). The Thailand Research Fund, Thailand
- 2012-2016 Cellular automata based game for enhancing logical thinking
Grant: Research Assistantships (2013). Mahidol University, Thailand
- 2013-2014 Development of inquiry-based computer instruction package of immune system
Grant: Young Researcher Grant Program (2014). Mahidol University, Thailand

Academic Projects

- 2019 The Connecting the Mekhong through Education and Training (USAID-LMI COMET)
- 2018 TEDxMahidolU 2 (Head of Finance and Accounting)
- 2017 Drama Program in health promotion for Mahidol University Students and Staff
- 2017 SPOC and MOOC Development Project (Academic Year 2017)
"Measurement and Evaluation in Education (Teachers and Researchers Edition)" course
Grant: Office of the Higher Education Commission: OHEC, Thailand
- 2017 TEDxMahidolU (Head of Information Technology and Production)
- 2017 Enjoy Science Project by Chevron Thailand

Professional Experiences by

- Career works
 - 2011-Present Lecturer, Institute for Innovative Learning, Mahidol University, Thailand
 - 2015-Present Senate Committee, Mahidol University, Thailand
 - 2014-2016 Writer at Aksorn chaloan tat, Bangkok, Thailand
 - 2014-2015 Invited Instructor, Rajinibon School, Bangkok, Thailand
 - 2013 Special Lecturer, College of Industrial Technology, King Mongkut's University of Technology North Bangkok, Thailand
- Subjects/ Courses
 - Physics for high school students

Physics for pre-engineering students
Physics Education
Research in Science and Technology Education
Analysis of Research in Teaching Science
Innovations in Science and Technology Education
Problem-Based Learning and Project-Based Learning
Measurement and Evaluation in Education
Seminars in Science and Technology Education
How to Write Teaching Plan
How to Manage Class for the Effective Learning Process
How to Write Academic Paper

○ Doctoral Dissertations Advising

Apinya Dhatsuwan. Game-based Cellular Automata to Enhance Logical Thinking. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Monamorn Precharattanata, Ph.D.

Charoenchai Wongwatkit. Enhancing Students' Conceptual Understanding Progression of Science Using a Web-Based Adaptive Learning Environment Based on a Questioning Approach. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Patcharin Panchaburi, Ph.D.

Krittawaya Thongkoo. An Inquiry blended SECI Model-based Learning Support Approach for Promoting Perceptions and Learning Achievement of University Students. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Patcharin Panchaburi, Ph.D.

Kannika Daungcharone. Using Digital Game as Compiler to Motivate C Programming Language Learning in Higher Education. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Patcharin Panchaburi, Ph.D.

Nantakarn Maneejak. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Pratchayapong Yasri, Ph.D.

Nidawan Changtong. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Pratchayapong Yasri, Ph.D.

Chulaluk Yimdee. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Monamorn Precharattanata, Ph.D.

Preeyada Tapingkae. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Patcharin Panchaburi, Ph.D.

Soonthareeya Sanium. Doctor of Philosophy (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Khajornsak Buaraphan, Ph.D.

○ Master Theses Advising

Dumcho Wangdi. Development of a Guided Inquiry Laboratory to Enhance Students' Understanding of Law of Energy Conservation. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Monamorn Precharattanata, Ph.D.

Sonam Choegyul. Development of a Science Learning Unit to Enhance High School Students' Understanding of Rainbow Based on Predict-Observe-Explain Approach. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Monamorn Precharattanata, Ph.D.

Ugyen Dorji. Multimedia-Supplemented Instructional Unit for Learning Household Electrical Energy Consumption and Conservation. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis Adviser: Patcharin Panchaburi, Ph.D.

Pattarapol Pisanpanumas. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Prachayapong Yasri, Ph.D.

Nawasiri Sirironnarong. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Prachayapong Yasri, Ph.D.

Nantida Butsarakam. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Prachayapong Yasri, Ph.D.

Ariya Suriyabutr. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Prachayapong Yasri, Ph.D.

Karnjanaporn Seangdeang. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Prachayapong Yasri, Ph.D.

Thanyaluck Ingkavara. Master of Science (Science and Technology Education), Major Field: Science and Technology Education, Institute for Innovative Learning. Thesis adviser: Prachayapong Yasri, Ph.D.

○ External/ Expert Dissertations/ Theses committee

Somsak Petcharat. The Study of Middle School Students' Alternative Conceptions in Physics. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis adviser: Chatree Faikhamta, Ph.D.

Raviwan Boonyasena. The Development of Grading 11th Students' Conceptions of Force Fields by 5Es Inquiry Learning Cycle. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis adviser: Eakgapoom Jantarakantee, Ph.D.

Chatree Hengsaluwong. Fostering Grade 10 Students' Scientific Creativity through Integrated Game with Context-Based Learning in the Topic of Force and Motion. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis adviser: Eakgapoom Jantarakantee, Ph.D.

Araya Wangaungkananon. Development of Lower Primary Student's Creativity Using Innovative Project. Master of Education (Science Education), Major

Field: Science Education, Department of Education. Thesis advisor: Sasithev Pitipornatapin, Ph.D.

Yuvaree Chaiponggam. The Development of Analytical Thinking Skill in Mechanical Wave in Grade 11 Students: Inquiry Based Learning. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis advisor: Eakgapoom Jantarakantee, Ph.D.

Nipaporn Klaysombat. The Development of Grade 12 Students' Conceptions about Fluid and Attitude towards Physics through Inquiry Learning Approach. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis advisor: Eakgapoom Jantarakantee, Ph.D.

Pracherd Ouaron. Learning Process by Creating a Task Using Constructionism Approach on Nuclear Reaction for Grade 12 Students. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis advisor: Sasithev Pitipornatapin, Ph.D.

○ Research Fellowships

- 2015 Visiting scientist at Biophysics group, School of Physics and Mechanical & Electrical Engineering, Xiamen University, China
- 2013 Visiting scientist at Faculté de Médecine et de Pharmacie de Grenoble - Université Joseph Fourier (UJF), France

○ Books writer

- 2015-2016 Physics Text Books 1 and 2 (Based core curriculum 2551, Level: High school, Publisher: Aksorn chaloan tat)
- Physics Exercise Books 3 (Based core curriculum 2551, Level: High school, Publisher: Aksorn chaloan tat)

○ Positions

- 2017 Chair committee of Registration and Public Relation, Academic committee of innovation in science and technology education, and Reviewer board of "The 3rd International Conference on Innovation in Education-ICIE 2017", Nakhon Pathom, Thailand
- 2016 Chair committee of Registration and Public Relation, Seminars of "Scholarship of Teaching and Learning". Windsor Suites Hotel, Bangkok, Thailand
- 2014 Chair committee of Registration and Public Relation, Academic committee of innovation in science and technology education, and Reviewer board of "The 2nd International Conference on Innovation in Education-ICIE 2015", Nakhon Pathom, Thailand
- 2012 Chair committee of Registration, Academic committee of innovation in science and technology education, and Reviewer board of "The 1st International Conference on Innovation in Education-ICIE 2012", Bangkok, Thailand
- 2012-2014 Coordinator project "Development of Educational Multimedia for 21st Century Learners", Institute for Innovative Learning, Mahidol University, Thailand

○ Consultant

- 2016-2018 AFMA (Agricultural and Food Marketing Association for Asia and the Pacific) Thailand

Publications

- International journals
- 2018 Kitrungloadjanaporn P, Phothong A, and **Precharattana M***. Seesaw Balancing: a Hands-on Model to Understand Moment of Force in Classroom, *Applied Mechanics and Materials* 2018; 879: 269-275.
- Kajonphol T*, Tonwong S, Nonthakod S, Sangsiri C and **Precharattana M**. Effect of Spacing and No. of Seedling per Hill on Growth and Yield Components of Rice cv. Chai Nat 1 under System of Rice Intensification , *Applied Mechanics and Materials* 2018; 879: 95-100.
- Kajonphol T, Seetaput N, **Precharattana M**, and Sangsiri C*. Correlation and Multiple Regression Model for Economic Traits of Local Rice (*Oryza Sativa* L.) in Upland Rice System, *Applied Mechanics and Materials* 2018; 879: 71-77.
- Choegyul S and **Precharattana M***. Indoor Rainbow Model: an Apparatus for Observing Spectrum in Classroom, *Applied Mechanics and Materials* 2018; 879: 260-266.
- Precharattana M**. Development of Computer-assisted Instruction Lesson on Immune System Organs and Immune System Diseases, *Applied Mechanics and Materials* 2018; 87: 276-283.
- 2017 Wangdi D, Kanthang P and **Precharattana M***. Development of a hands-on model embedded with guided inquiry laboratory to enhance students' understanding of law of mechanical energy conservation, *Asia-Pacific Forum on Science Learning and Teaching* 2017; 18(2).
- 2016 Dhatsuwan A* and **Precharattana M**. BLOCKYLAND: Cellular Automata Based Game to Enhance Logical Thinking, *Simulation and Gaming* 2016; 47(4): 445-464. DOI: 10.1177/1046878116643468.
- 2015 **Precharattana M**. Stochastic Modeling for Dynamics of HIV-1 Infection Using Cellular Automata: a Review, *Journal of Bioinformatics and Computational Biology* 2015;14(1):1-17. DOI:10.1142/S021972001630001X.
- 2014 **Precharattana M*** and Triampo W. Modeling Dynamics of HIV Infected Cells Using Stochastic Cellular Automaton, *Physica A: Statistical Mechanics and its Applications* 2014;407:303-311.
- 2011 **Precharattana M**, Triampo W*, Modchang C, Triampo D, Lenbury Y, Nokkaew A. Stochastic Cellular Automata Model and Monte Carlo Simulations of CD4⁺ T Cell Dynamics with a Proposed Alternative Leukapheresis Treatment for HIV/AIDS, *Computer in biology and medicine* 2011;41(7):546-558.
- Sudprasert K, **Precharattana M**, Nuttavut N, Triampo D, Pattanasiri B, Lenbury Y and Triampo W*. Non-equilibrium Statistical Mechanics of Driven Lattice Gas Model: Probability Function, FDT-violation, and Monte Carlo Simulations, *International Journal of Computational and Mathematical Sciences* 2011;5(2):84-92.
- 2010 **Precharattana M**, Triampo W, Modchang C, Triampo D, Lenbury Y*. Investigation of Spatial Pattern Formation Involving CD4⁺ T cells in HIV/AIDS Dynamics by a Stochastic Cellular Automata Model, *International Journal of Mathematics and Computer in Simulations* 2010;4(4):135-143.

- Book Chapter

- 2012 **Precharattana M** and Triampo W. Effects of Initial Concentration and Severity of Infected Cells on Stochastic Cellular Automaton Model Dynamics for HIV Infection. G.C. Sirakoulis and S. Bandini (Eds.): ACRI 2012, LNCS 7495, pp. 454–463, 2012. © Springer-Verlag Berlin Heidelberg 2012.
- Proceedings
- 2018 **Precharattana M**, Kajonphol T. A stochastic cellular automata model for rice tillering in the system of rice intensification. In *Journal of Physics: Conference Series* 2018 Jul (Vol. 1053, No. 1, p. 012104). IOP Publishing.
- 2014 Wangdi D, Kanthang P and **Precharattana M**. A Low Cost Hands-on Model for Demonstration on Law of Mechanical Energy Conservation, Proceeding of the 40th Congress on Science and Technology of Thailand, December 2-4, 2014; Khon Kaen, Thailand.
- Choegyal S and **Precharattana M**. Development of a Learning Unit to Enhance High School Students' Understanding about Spectrum Formation in Rain Drop Using Predict-Observe-Explain (Poe) Learning Cycle, Proceeding of the 2nd ASEAN Plus Three Graduate Research Congress, February 5-7, 2014; Bangkok, Thailand.
- 2012 **Precharattana M** and Triampo W. Stochastic Cellular Automata for HIV Infection with Effects of Cell-mediated Immunity, Proceeding of the 2012 International Conference on Scientific Computing (CSC'12), July 16-19, 2012; Las Vegas, USA.
- 2010 **Precharattana M**, Triampo W, Modchang C, Triampo D, Lenbury Y. Simulation of a Stochastic Cellular Automata HIV/AIDS Model for Investigation of Spatial Pattern Formation Mediated by CD4⁺ T Cells and HIV Dynamics, Proceeding of the 10th WSEAS International Conference on Applied Computer Science (ACS'10), October 4-6, 2010; Iwate Prefectural University, Japan.
- Conference presentations
- Kitrungloadjanaporn P, Phothong A, and **Precharattana M**. Seesaw Balancing: a Hands-on Model to Understand Moment of Force in Classroom. The 8th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the Digital Society, June 22-23, 2017; Pullman Bangkok King Power, Bangkok, Thailand
- Tonwong S, Nonthakod S, Kajonphol T, Sangsiri C and **Precharattana M**. Effect of Spacing and No. of Seedling per Hill on Growth and Yield Components of Rice cv. Chai Nat 1 under System of Rice Intensification. The 8th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the Digital Society, June 22-23, 2017; Pullman Bangkok King Power, Bangkok, Thailand
- Kajonphol T, Seetaput N, **Precharattana M**, and Sangsiri C. Correlation and Multiple Regression Model for Economic Traits of Local Rice (*Oryza Sativa* L.) in Upland Rice System. The 8th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the Digital Society, June 22-23, 2017; Pullman Bangkok King Power, Bangkok, Thailand

Choegyul S and **Precharattana M**. Indoor Rainbow Model: an Apparatus for Observing Spectrum in Classroom. The 8th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the Digital Society, June 22-23, 2017; Pullman Bangkok King Power, Bangkok, Thailand

Precharattana M. Development of Computer-assisted Instruction Lesson on Immune System Organs and Immune System Diseases. The 8th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges towards the Digital Society, June 22-23, 2017; Pullman Bangkok King Power, Bangkok, Thailand

Dhatsuwan A and **Precharattana M**. Learning of Cellular Automata Using Paper-Based Game: Pilot Study. The 2nd ASEAN Plus Three Graduate Research Congress (2AGRC), February 5-7, 2014; Bangkok, Thailand.

Precharattana M and Triampo W. Stochastic Cellular Automaton Model for Dynamics of HIV Infection. International Conference in Mathematics and Applications (ICMA-MU 2013), January 19-21, 2013, Bangkok, Thailand.

Precharattana M. Exploring the Students' Demand on Media Used in Immune System Teaching. The 1st International Conference on Innovation in Education (ICIE 2012), November 7-9, 2012, Bangkok, Thailand.

Precharattana M and Triampo W. Effects of Initial Concentration and Severity of Infected Cells on Stochastic Cellular Automaton Model Dynamics for HIV Infection. The 10th edition of ACRI 2012 Conference (Cellular Automata for Research and Industry), September 24-27, 2012, Santorini, Hellenic Republic.

Precharattana M, Nokkeaw A, Triampo W, Triampo D and Lenbury Y. How could Leukocytapheresis as an Alternative HIV/AIDS Treatment Save Life?: Stochastic Model and Simulations. The 18th International Conference on the Discrete Simulation of Fluid Dynamics (DSFD 2009), July 6-10, 2009, Peking University, Beijing, People's Republic of China.

Precharattana M, Nokkeaw A, Triampo W, Triampo D, Lenbury Y, "The Quest for a Strategy to Survive with HIV/AIDS, How could Leukocytapheresis as an Alternative HIV/AIDS Treatment Save Life?" , Physic for dynamics society (SPC 2009), March 19-21, 2009, Petchaburi , Thailand.

Precharattana M, Wechakama M. Neutron Star. Science and Technology for Youth, Bangkok International Trade & Exhibition Centre (BITEC), March 14-15, 2006, Bangkok, Thailand.

Innovations/ Products

2016	BLOCKYLAND: Cellular automaton educational game for enhancing logical thinking Cellular automaton educational game for enhancing logical thinking
2015	Law of Energy Conservation instructional tool for a guided inquiry laboratory (On going for patent)
2014	Indoor Rainbow model: an apparatus for studying rainbow formation
2014	Seesaw Balancing: a simple apparatus for studying moment of force
2013	Inquiry-based computer instruction package of immune system

Academic Services

- Journals Reviewer
Frontiers Immunology (IF = 6.429)

PLOS ONE (IF = 3.057)

PHYSICA A (IF = 1.785)

Asia-Pacific Forum on Science Learning and Teaching (IF=0.161)

○ Books Reviewer

- 2018-2019 COMPUTATIONAL THINKING 1-6 (Based core curriculum 2561 by STEM based Education technique, Level: Primary school, Publisher: EDUKIDS)
- 2016-2017 SCIENCE BOOK 1-6 (Based core curriculum 2551 by STEM based Education technique, Level: Primary school, Publisher: EDUKIDS)

○ Committee/ Reviewer/ Chairperson/ Co-chairperson

- 2017 - Committee and Reviewer. “The 8th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: Challenges Towards the Digital Society”, June 22-23, 2017; Pullman Bangkok King Power, Bangkok, Thailand
- 2016 - Reviewer. Thai MOOC: Thai Massive Open Online Courses, Faculty of Science, Mahidol University, Thailand
- Program committee. Show & Share 2016, Panyapiwat Institute of Management, Thailand
- 2014 - Reviewer. The 2nd International Conference on Computers in Education (ICCE 2015), Mahidol Learning Center, Nakhon Pathom, Thailand
- Program committee. Science Show for the office of secondary education school district 2 to elect the representative team for competition in education sector; Horwang school, Bangkok, Thailand
- Reviewer. National conference “Science Education to Inspire Innovation”, September 5-6, 2014; Faculty of Science and Technology, Phetchaburi Rajabhat University, Phetchaburi, Thailand
- Committee and Reviewer. “The 5th RMUTP International Conference on Science, Technology and Innovation for Sustainable Development: the road towards a green future”, July 17-18, 2014; Pullman Bangkok King Power, Bangkok, Thailand
- 2013 - Reviewer and Co-chairperson. “The 5th Rajamangala University of Technology National Conference and The 4th Rajamangala University of Technology International Conference”, July 15-16, 2013; Bangkok Convention Centre at Central World, Bangkok, Thailand
- Program committee. Science Show for the office of secondary education school district 2 to elect the representative team for competition in education sector; Horwang school, Bangkok, Thailand
- 2012 - Chairperson. “The 2012 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE'12), July 16-19, 2012; Las Vegas, USA”

○ Teaching

- 2014-2017 Invited Instructor, Horwang School, Bangkok, Thailand

○ Workshops

For university lecturers

- Writing Research Proposal

- Customer in 2016 Rajamangala University of Technology Rattanakosin
- Writing Research Proposal in Education
- Customer in 2016 Innovative Learning Center, Srinakharinwirot University
- STEM Education
- Customer in 2015 Rajamangala University of Technology Rattanakosin

For high school teachers

- Enjoy Science Project by Chevron Thailand
- Customer in 2016 Office of Nakhon Pathom Educational Service Area
- Development of PISA test for high school students' assessment and evaluation
- Customer in 2014 Office of Rayong Primary Educational Service Area
- Development of learning multimedia
- Customer in 2013 Office of Samutsakorn Educational Service Area

For students

- Free Falling
- Customer in 2017 Surasak Montri School
- Moment of force: Clay Tower
- Customer in 2017 Benchama Maharat School
Satreesethabuthbumpen School
- Inquiry Labs for Physics
- Customer in 2016 Surasak Montri School
- Science in the park (one day camp)
- Customer in 2016 Surasak Montri School
- Moment of force: Clay Tower
- Customer in 2016 Benchama Maharat School
Satriwitthaya 2 School
Suankularb Wittayalai Nonthaburi School
Chiang Rai Municipality School 6
- 2015 Benchama Maharat School
Chiang Rai Municipality School 6
- 2014 Benchama Maharat School
- 2013 Mahidol University International Demonstration School
- Critical Thinking: Fact and Opinion
- Customer in 2013 Suksanari School
- How can you keep a falling egg without breaking?
- Customer in 2013 Suksanari School
- 2012 Satriwitthaya 2 School
- Roller Coaster: Fun Science with Local problems
- Customer in 2012 Samut Sakhon primary students, Te Pang Korn Ratsameechod Camp
- Prove it!! Sink or Float

Customer in 2012 Satrivittaya 2 School
 National Science and Technology Fair 2012
 2011 Chiangrai Municipality School 6
 Benchama Maharat School
 Satrivittaya 2 School

○ Seminars

- A Farmer Trainee: organic rice farming experiences to researches
 2017 Institute of Nutrition, Mahidol University
- Highlight section
 2017 The Third Scholarship of Teaching and Learning: Transformation towards University 4.0. Institute of learning and teaching innovation, Khon Kaen University
- Food Crisis, Consumption Crisis
 2017 Department of Environmental Quality Promotion, Ministry of Natural Resource and Environment
- Ignite idea with sharing farming and SRI - research experiences in Thailand.
 2016 ECHO Thailand
 Royal Irrigation. Department Ministry of Agriculture and Cooperatives

○ Others

- Physics exam for high school students' competition in "Toyota Maharakam_Excellent Award: TMEA"
- Costumer in 2014 Office of Maharakarm secondary educational service area, Thailand

Social Contributions

2014-Present Page Founder “A Farmer Trainee”

Supplementary:

<https://www.youtube.com/watch?v=Eaz2seP9JgE> (รายการคนเปลี่ยนโลก ตอน “อาจารย์วันธรรมดา ขวานาวันหยุด” ช่อง 5 ออกอากาศ 20 มิถุนายน 2559)

รายการ Happy Fined Day ช่อง Mahidol channel และ ไทยรัฐทีวี

http://youtu.be/BnVXXjwdy_Y (รายการ What’s up spring! ช่อง spring news)

www.youtube.com/watch?v=ll6AqHVC5gg (รายการ Lightning Talk กับสายสวรรค์ ขยันยิ่ง “ทำนาวันเสาร์อาทิตย์ แนวคิดอนุรักษ์และพัฒนาเกษตรกรรมของคนรุ่นใหม่” ช่อง 3SD ออกอากาศ 26 พฤษภาคม 2558)

<http://goo.gl/kefKmi> (รายงานพิเศษวันพีซมงคล “ทำงานวันธรรมดาเป็นขวานาวันหยุด” ครอบคลุมข่าว 3)

www.youtube.com/watch?v=sGHjXIN9H7c (รายการตอบโจทย์ “มือเปื้อนชอล์ก ขาเปื้อนโคลน จากอาชีพครูผู้วิเศษขวานา” ช่อง ThaiPBS ออกอากาศ 14 เมษายน 2558)

<http://www.manager.co.th/Science/ViewNews.aspx?NewsID=9580000032849> (ซีรีส์-ซี(วิท)วิต ตอนที่ 1 “อาจารย์มหาวิทยาลัยวันธรรมดา ขวานาวันหยุด”. ผู้จัดการ ออนไลน์. 22 มีนาคม 2558)

www.youtube.com/watch?v=Q3WF9VFvEmA

(รายการคุยจริงใจ สไตล์หมอชัย “นวัตกรรมการเกษตรในมือคนรุ่นใหม่ 2” ช่อง TNN)

www.youtube.com/watch?v=Jz81AILAFhs

(รายการเกษตรซ่า! เกษตร...อีซี่ อีซี่ ตอนที่ 1 อาจารย์...ผู้ขวานา ช่อง new tv)

“Change the world”. New 108 magazines volume August 22, 2014. (Cover page)

2009-2011 Member of volunteer spirit network

2006-2011 Volunteer lecturer at Thailand Association of the Blind (T.A.B.), Bangkok, Thailand

2007 Volunteer lecturer at Home for children with disabilities, Nonthapoom, Nontaburi, Thailand

2005 Volunteer lecturer at Sinraesiam School, Ratchaburi, Thailand