

# Uamporn Witthayarat Ph.D.



## Workplace

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School of Science,  
University of Phayao

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## Languages

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Thai  
English

## Current Position

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Mathematics Lecturer

## Scholarship

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- 400<sup>th</sup> Ceremony of King Naresuan Scholarship, the former Naresuan University, Phayao Campus
- Scholarship under the Higher Education Research Project provided by the Office of the Higher Education Commission

## Research Experience

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- 2011-Short-term research at Kyungnam University, Korea
- 2011-Short-term research at Gyeongsang National University, Korea
- 2012-Short-term research at Gyeongsang National University, Korea
- 2015-Short-term research at Gyeongsang National University, Korea

## Education

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**Doctor of Philosophy:** Applied Mathematics-2014  
King Mongkut's University of Technology Thonburi, Thailand

**Master of Science:** Applied Mathematics-2008  
Chiang Mai University, Thailand

**Bachelor of Science:** Mathematics- 2002  
Chiang Mai University, Thailand

## Research Fields

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Fixed Point Theory, Functional Analysis, Nonlinear Analysis,  
Convex Analysis, Complex Analysis, Optimization

# International Publications

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- T. Jitpeera, **U.Witthayarat** and P. Kumam, “Hybrid algorithm of common solutions of generalized mixed equilibrium problems and the common variational inequality problems with applications”, Fixed Point Theory and Applications, Volume 2011, Article ID 971479, 28 pages.
- **U.Witthayarat**, Y.J. Cho and P. Kumam, “Convergence of an iterative algorithm for common solutions for zeros of maximal accretive operator with applications”, Journal of Applied Mathematics, Volume 2012, Article ID 185104, 17 pages.
- **U.Witthayarat**, J.K. Kim and P. Kumam, “A viscosity hybrid steepest-descent methods for a system of equilibrium problems and fixed point for an infinite family of strictly pseudo-contractive mappings”, Accepted to Journal of Inequalities and Applications, 2012, 2012:224. doi:10.1186/1029-242X-2012-224
- **U.Witthayarat**, Y.J. Cho and P. Kumam, “Approximation algorithm for fixed points of nonlinear operators and solutions of mixed equilibrium problems and variational inclusion problems with applications”, Journal of Nonlinear Science and Applications, Volume 5(2012), page 475-494.
- **U.Witthayarat**, T.Jitpeera and P.Kumam, “A new modified hybrid steepest-descent by using a viscosity approximation method with a weakly contractive mapping for a system of equilibrium problems and fixed point problems with minimization problems”, Abstract and Applied Analysis, Volume 2012, Article ID 206345, 29 pages.
- **U.Witthayarat** and P.Kumam, “Convergence theorem for class T mappings in Hilbert Spaces”, Proceeding of the International MultiConference of Engineer and Computer Scientists, Vol.II (2013), March 13-15, Hong Kong.
- K.Wattanawitton, **U.Witthayarat** and P.Kumam, “Strong Convergence theorem of multivalued mappings and maximal monotone operator in Banach spaces”, Proceeding of the International MultiConference of Engineer and Computer Scientists, Vol.II (2013), March 13-15, Hong Kong.
- **U.Witthayarat**, K. Wattanawitton and P.Kumam, “Modified iterative scheme for multivalued nonexpansive mappings, equilibrium problems and fixed point problems in Banach spaces”, G.C. Tang et al.(eds), Transactions on Engineering Technologies, Lecture Notes in Electrical Engineering 275, doi:10.1007/978-94-007-7684-5.
- W.Phuengrattana, S.Suantai, K.Wattanawitton, **U.Witthayarat** and P.Kumam, “Weak and strong convergence theorems of proximal point algorithm for solving generalized

mixed equilibrium problems and finding zeroes of maximal monotone operators in Banach spaces”, Journal of Computational Analysis and Applications, Vol. 16 Issue 1, 2014.

- **U.Witthayarat**, A. Abdou and Y.J. Cho, “Shrinking projection methods for solving split equilibrium problems and fixed point problems for asymptotically nonexpansive mappings in Hilbert spaces”, Fixed Point Theory and Applications, 2015.
- **U.Witthayarat**, K.Wattanawitton and P.Kumam, “Iterative scheme for system of equilibrium problems and bregman asymptotically quasi-nonexpansive mappings in Banach spaces”, Journal of Information and Optimization Sciences, 37(3), 321-342, 2016.
- W.Kumam, **U.Witthayarat**, P. Kumam, S.Suantai and K. Wattanawitton, “Convergence theorem for equilibrium problem and bregman strongly nonexpansive mappings in Banach spaces”, Optimization, 65(2), 265-280, 2016.
- **U.Witthayarat**, Y.J.Cho and P.Cholamjiak, “On solving proximal split feasibility problems and applications”, Annal of Functional Analysis, 9(1), 111-122, 2018.
- **U.Witthayarat**, Chaichana Jaiboon, S.Plubtieng and P.Katchang, “On solving the variational inequality and fixed point problems in  $q$ -uniformly smooth Banach spaces”, Fixed Point Theory, 20(1), 365-388, 2019.
- S.Suantai, **U.Witthayarat**, Y.Shehu and P.Cholamjiak, “Iterative methods for the split feasibility problem and the fixed point problem in Banach spaces”, Optimization, 68(2), 1-26, 2019.
- **U.Witthayarat** and K.Wattanawitton, “Convergence theorem for nonexpansive semigroup in  $q$ -uniformly smooth Banach spaces”, Communications in Mathematics and Applications, 10(2), 295-307, 2019.