

Pachara Jailoka, Ph.D.



Workplace: Department of Mathematics,
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1. Educational Background:

- 2010 – 2014 B.S. in Mathematics, University of Phayao, Phayao, Thailand (*first class honors*)
Senior Project: *Minimality and maximality of ordered quasi-ideals in ordered ternary semigroups*
- 2014 – 2019 Ph.D. in Mathematics, Chiang Mai University, Chiang Mai, Thailand
Thesis: *Strong convergence for split problems of common fixed points and null points in Hilbert spaces*

2. Career Summary:

- 2022 – present Lecturer in Mathematics at School of Science, University of Phayao

3. Scholarships and Research Grants:

- 2010 – 2014 The Promotion and Grant Program for Excellent Students in Mathematics from University of Phayao
- 2015 – 2019 The Royal Golden Jubilee (RGJ) Ph.D. Programme from Thailand Research Fund
- 2020 Post-Doctoral Fellowship from Chiang Mai University
- 2021 Post-Doctoral Fellowship under International Research Network in Digital Image Processing and Machine Learning from Thailand Science Research and Innovation
- 2022 Research Grant from School of Science, University of Phayao

4. Honors and Awards:

- Student Award for Outstanding Academic Performance from University of Phayao (2013)
- Student Award for Excellent Academic Performance throughout the Program from School of Science, University of Phayao (2013)
- Student Award for Excellent Academic Performance, Bachelor of Science Program in Mathematics, University of Phayao from the Professor Dr. Tab Nilanidhi Foundation (2014)

5. Research Interests:

- Nonlinear and Convex Analysis
- Approximation Theory and Convergence Analysis
- Fixed Point Theory and Applications
- Optimization Problems and Applications

6. List of Publications:

- P. Jailoka, A. Iampan*, *Minimality and maximality of ordered quasi-ideals in ordered ternary semigroups*, *General Mathematics Notes* 21(2) (2014) 42–58
(Mathscinet 2013)
- P. Jailoka, S. Suantai*, *Split null point problems and fixed point problems for demicontractive multivalued mappings*, *Mediterranean Journal of Mathematics* 15 (2018) Article No. 204
(WoS 2017, IF=1.000, Q1)
- P. Jailoka, S. Suantai*, *Split common fixed point and null point problems for demicontractive operators in Hilbert spaces*, *Optimization Methods and Software* 34(2) (2019) 248–263
(WoS 2018, IF=1.336, Q2)
- P. Jailoka, S. Suantai*, *The split common fixed point problems for multivalued demicontractive mappings and its applications*, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas* 113 (2019) 689–706
(WoS 2018, IF=1.028, Q2)
- W. Khuangsatung, P. Jailoka, S. Suantai*, *An iterative method for solving proximal split feasibility problems and fixed point problems*, *Computational and Applied Mathematics* 38 (2019) Article No. 177
(WoS 2018, IF=1.260, Q2)
- P. Jailoka, S. Suantai*, *Viscosity approximation methods for split common fixed point problems without prior knowledge of the operator norm*, *Filomat* 34(3) (2020) 761–777
(WoS 2019, IF=0.848, Q2)
- P. Jailoka, V. Berinde, S. Suantai*, *Strong convergence of Picard and Mann iterations for strongly demicontractive multi-valued mappings*, *Carpathian Journal of Mathematics* 36(2) (2020) 269–276
(WoS 2019, IF=1.438, Q1)
- S. Suantai, P. Jailoka*, *A self-adaptive algorithm for split null point problems and fixed point problems for demicontractive multivalued mappings*, *Acta Applicandae Mathematicae* 170 (2020) 883–901
(WoS 2019, IF=0.974, Q3)
- S. Suantai, P. Jailoka, A. Hanjing*, *An accelerated viscosity forward-backward splitting algorithm with the linesearch process for convex minimization problems*, *Journal of Inequalities and Applications* 2021 (2021) Article No. 42
(WoS 2020, IF=2.491, Q1)

- A. Hanjing, P. Jailoka, S. Suantai*, *An accelerated forward-backward algorithm with a new linesearch for convex minimization problems and its applications*, *AIMS Mathematics* 6(6) (2021) 6180–6200
(WoS 2020, IF=1.427, Q2)
- P. Jailoka, S. Suantai*, *On split fixed point problems for multi-valued mappings and designing a self-adaptive method*, *Results in Mathematics* 76(3) (2021) Article No. 133
(WoS 2020, IF=1.199, Q2)
- P. Jailoka, S. Suantai, A. Hanjing*, *A fast viscosity forward-backward algorithm for convex minimization problems with an application in image recovery*, *Carpathian Journal of Mathematics* 37(3) (2021) 449–461
(WoS 2020, IF=1.778, Q1)
- P. Jailoka, S. Suantai, P. Sunthrayuth*, *A self-adaptive method for split common null point problems and fixed point problems for multivalued Bregman quasi-nonexpansive mappings in Banach spaces*, *Filomat* 36(10) (2022) 3379–3300
(WoS 2021, IF=0.988, Q2)
- P. Jailoka, C. Suanoom, W. Khuangsatung*, S. Suantai, *Self-adaptive CQ-type algorithms for the split feasibility problem involving two bounded linear operators in Hilbert spaces*, *Carpathian Journal of Mathematics* 40(1) (2024) 77–98
(WoS 2022, IF=1.4, Q1)

7. Conferences and Workshops:

Poster Presentation:

- The 6th Science Research Conference (SRC6), Burapha University, Thailand, 2014
Minimality and maximality of ordered quasi-ideals in ordered ternary semigroups

Oral Presentations:

- The 42th Congress on Science and Technology of Thailand (STT42), Bangkok, Thailand, 2016
Split null point problems and fixed point problems for demicontractive multivalued mappings
- The 19th Royal Golden Jubilee Ph.D. Congress (RGJ-Ph.D. Congress19), Pattaya, Thailand, 2018
The split fixed point problem for demicontractive mappings in Hilbert spaces
- The 10th Asian Conference on Fixed Point Theory and Optimizations (ACFPTO2018), Chiang Mai University, Thailand, 2018
The split common fixed point problems for multivalued demicontractive mappings and its applications
- The 6th Asian Conference on Nonlinear Analysis and Optimization (NAO-Asia2018), Okinawa, Japan, 2018
Split null point problems and common fixed point problems for a finite family of demicontractive multivalued mappings

- The 6th International Workshop on Nonlinear Analysis, Fixed Point Theory & Applications, North University Center of Baia Mare, Technical University of Cluj-Napoca, Romania, 2019
Strong convergence of Picard and Mann iterations for strongly demicontractive multi-valued mappings
- The 11th International Conference on Nonlinear Analysis and Convex Analysis & International Conference on Optimization: Techniques and Applications (NACA-ICOTA2019), Hakodate, Japan, 2019
Strong convergence of Picard and Mann iterations for strongly demicontractive multi-valued mappings

Participations:

- The 9th Asian Conference on Fixed Point Theory and Optimization (ACFPTO2016), King Mongkut's University of Technology Thonburi, Thailand, 2016
- The 2th International Workshop on Applied Nonlinear Analysis (IWANA2019), Chonburi, Thailand, 2019
- The Workshop on Fixed Point Theory and Optimization (Celebration for the 60th Anniversary of Prof. Suthep Suantai), Chiang Mai University, Thailand, 2020
- The 7th International Workshop on Nonlinear Analysis, Fixed Point Theory & Applications, North University Center of Baia Mare, Technical University of Cluj-Napoca, Romania, 2021 (online system)
- The International Workshop on Digital Image Processing and Machine Learning (IWDM2021), International Research Network, TSRI, Chiang Mai University, Thailand, 2021 (online system)
- The International Conference on Digital Image Processing and Machine Learning (ICDIPML2022), International Research Network, TSRI, University of Phayao, Thailand, 2022 (online system)

8. Short-Term Research Programs:

- University of Zielona Góra, Zielona Góra, Poland (October – December 2017)
supervised by *Professor Andrzej Cegielski*
- North University Center at Baia Mare, Technical University of Cluj-Napoca, Baia Mare, Romania (February – May 2019) supervised by *Professor Vasile Berinde*

9. Positions in International Journals:

- Assistant Managing Editor of Thai Journal of Mathematics (2014 – 2017, 2021 – present)
- Managing Editor of Thai Journal of Mathematics (2018 – 2021)
- Reviewer for Mathematics Journals:
 - Thai Journal of Mathematics
 - Optimization
 - Carpathian Journal of Mathematics
 - Journal of Computational and Applied Mathematics

10. Other Academic Activities:

- Tutor for Mathematics for undergraduate students, University of Phayao (2011 – 2014)
- Tutor for Mathematics for high school students, Chiang Kham Wittayakom School (2014, 2020)
- Instructor of Gifted Math Camps (Northern Thailand) for junior high school students, Chiang Mai (2014 – present)
- Staff of the South East Asian Mathematical Society (SEAMS) School on “Fixed Point Theory and Optimization”, Chiang Mai University (2017)
- Staff of the 22nd Annual Meeting in Mathematics (AMM2017), Chiang Mai University (2017)
- Staff of the 10th Asian Conference on Fixed Point Theory and Optimizations (ACFPTO2018), Chiang Mai University (2018)
- Staff of the Workshop on Fixed Point Theory and Optimization (Celebration for the 60th Anniversary of Prof. Suthep Suantai), Chiang Mai University (2020)
- Local Organizing Committee and Liaison of the International Workshop on Digital Image Processing and Machine Learning (IWDM2021), International Research Network, TSRI, Chiang Mai University (2021)
- Local Organizing Committee and Liaison of the International Conference on Digital Image Processing and Machine Learning (ICDIPML2022), International Research Network, TSRI, University of Phayao (2022)
- Invited Speaker for junior high school students (Science and Mathematics Ability), Sankamphaeng School (2022, 2023)
- Assistant editor of the 14th Science Research Conference (SRC14), University of Phayao (2023)