

NATHAPON UDOMLERTSAKUL

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CAREER

Lecturer at the International College of Digital Innovation
Chiang Mai University

2022 - present

EDUCATION

Doctor of Philosophy Mathematics department, University of Missouri, Columbia
Dissertation - Partial connections and contact instantons on contact manifolds
Advisor: Prof. Shuguang Wang

2017 - 2022

Master of Science Mathematics department, Ohio University

2015 - 2016

Bachelor of Science Mathematics department, Chiang Mai University

2010 - 2014

Independent study: Fixed point theorems for multivalued mapping on metric space with graph
Advisor: Prof. Suthep Suantai

SCHOLARSHIPS

- B.SC., Development and promotion of science and Technology Talent Project by the institute for the promotion of teaching science and technology of Thailand [Full scholarship, 2010-2014]
- M.S., Development and promotion of science and Technology Talent Project by the institute for the promotion of teaching science and technology of Thailand [Full scholarship, 2015-2017]
- Ph.D., Development and promotion of science and Technology Talent Project by the institute for the promotion of teaching science and technology of Thailand [Full scholarship, 2017-2022]
- University of Missouri, Mathematics department [Gauge Theory in Geometry and Topology summer school at MSRI 2021]
- Chiang Mai University Young Researcher Development Scholarship [2023]

PUBLICATIONS

Journal Articles

- **Udomlertsakul, N.** and Suantai, S. (2016). Fixed point theorems for graph preserving multivalued mappings in complete metric spaces with graph. *Interdisciplinary Research Review*, 11(2), 8–12.
<https://ph02.tci-thaijo.org/index.php/jtir/article/view/59131>
- **Udomlertsakul, N.** and Wang, S. (2023). Contact Instantons and Partial Connections. *Journal of Geometry and Physics*, Volume 187, <https://doi.org/10.1016/j.geomphys.2022.104747>

Conference Proceedings

- Jiao H. and **Udomlertsakul N.** and Tamprasirt A. (2024). Credential Control Balance: A Universal Blockchain Account Model Abstract From Bank to Bitcoin, Ethereum External Owned Account and Account Abstraction. *The 8th TICC International Conference 2024 Proceeding*, <https://arxiv.org/abs/2402.10616>
- Li X. and **Udomlertsakul N.** (2024). Social Network Analysis of Blockchain Online Social Media: Steemit Case Study. *The 8th TICC International Conference 2024 Proceeding*, 138-146 , https://ticc.ic.swu.ac.th/wp-content/uploads/2024/04/Proceedings_TICC-8th_V3_20240410.pdf
- Li, L. and **Udomlertsakul, N.**(2025) A Trust Analysis of Curve and Uniswap in Stablecoin Trading Based on the Invariant of AMMs. *The Digital Innovation and Financial Technology Conference 2025-2 (DIFT) proceeding*, pp. 1–12. https://icdi.cmu.ac.th/DIFT/2025-2/download/Proceeding_DIFT_2025-2.pdf

- Peng, M. and **Udomlertsakul, N.** (2026) The Evolution of Governance Discourse in Uniswap DAO by Using BERTopic. *The Digital Innovation and Financial Technology Conference 2026-1 (DIFT) proceeding*, pp. 24-37. <https://icdi.cmu.ac.th/DIFT/2026-1/download/FullProceeding%20DIFT2026-1.pdf>
- He, X. and **Udomlertsakul, N.** (2026) Automated Transaction Risk Scoring in Cryptocurrency Exchanges with a KYT Model for FATF Compliance. *The Digital Innovation and Financial Technology Conference 2026-1 (DIFT) proceeding*, pp.38-52.<https://icdi.cmu.ac.th/DIFT/2026-1/download/FullProceeding%20DIFT2026-1.pdf>

Poster

1. **Udomlertsakul, N.** Constant Function Market Maker with Dynamic Fees in Decentralized Exchange, CMU Annual Research Summit 2025, August 18 - 19 [Poster presentation]