

EDUCATION

- Ph.D. in Computer Science** — Northwestern University (expected) June 2019 - June 2023
Advised by Prof. Samir Khuller
- Master of Science in Computer Science** — The University of Maryland, College Park August 2017 - May 2019
Advised by Prof. Samir Khuller
- Master of Engineering in Computer Engineering** — Kasetsart University August 2014 - January 2018
Advised by Prof. Jittat Fakcharoenphol
- Bachelor of Engineering in Computer Engineering** — Chulalongkorn University May 2009 - April 2013

WORK EXPERIENCE

- Software Engineer Intern** — Meta June 2022 - September 2022
- Research Intern** — Adobe June 2021 - September 2021
- Software Engineer Intern** — Quora June 2019 - September 2019
- Research Intern** — Aalto University in Finland May 2018 - August 2018
- Language Operation Engineer** — Google Singapore (contract w/ The Optimum Solutions) Oct 2016 - August 2017
- Language Operation Engineer** — Google Thailand (contract w/ Kelly Services Staffing) June 2015 - June 2016
- Application Engineer** — The Stock Exchange of Thailand May 2013 - Apr 2014
- Intern** — Hua Lampong (Thailand) Mar 2012 - May 2012

PUBLICATIONS (authors are listed in alphabetical order unless indicated by *)

- [1] Sayan Bhattacharya, Thatchaphol Saranurak, Pattara Sukprasert. **Simple Dynamic Spanners with Near-optimal Recourse against an Adaptive Adversary**. *European Symposium on Algorithms (ESA 2022)*.
- [2] Saba Ahmadi, Pranjal Awasthi, Samir Khuller, Matthäus Kleindessner, Jamie Morgenstern, Pattara Sukprasert, A. Vakilian, **Individual Preference Stability for Clustering**. *International Conference on Machine Learning (ICML 2022)*.
- [3] Parinya Chalermsook, Chien-Chung Huang, Danupon Nanongkai, Thatchaphol Saranurak, Pattara Sukprasert, Sorrachai Yingchareonthawornchai. **Approximating k-Edge-Connected Spanning Subgraphs via a Fast Linear Program Solver**. *International Colloquium on Automata, Languages and Programming (ICALP2022)*.
- [4*] Saba Ahmadi, Pattara Sukprasert, Rahulsham Vegesna, Sanju Sinha, Fiorella Schischilk, Natalie Artzi, Samir Khuller, Alejandro A. Schaffer, Eytan Ruppim. **The landscape of receptor-mediated precision cancer combination therapy via a single-cell perspective**. *Nature Communications (2022)*.
- [5] Parinya Chalermsook, Samir Khuller, P. Sukprasert, Sumedha Uniyal. **Multi-transversals for Triangles and the Tuza's Conjecture**. *Symposium on Discrete Algorithms (SODA 2020)*.
- [6] Jittat Fakcharoenphol, Pattara Sukprasert. **An $n^{O(1/\epsilon)}$ Approximation Scheme For The Minimum Dominating Set In Unit Disk Graphs**. *Joint Conference on Computer Science and Software Engineering (JCSSE 2018)*.

MANUSCRIPTS

- [7] Anders Aamand, Justin Y Chen, Allen Liu, Sandeep Silwal, Pattara Sukprasert, Ali Vakilian, Fred Zhang. **Improved Approximations for Individual Preference Stable Clustering**. 2022.
- [8*] Pattara Sukprasert, Quanquan C. Liu, Laxman Dhulipala, Julian Shun. **Practical Parallel Algorithms for Near-Optimal Densest Subgraphs on Massive Graphs**. 2022.
- [9*] Anxin Guo, Jingwei Li, Pattara Sukprasert, Samir Khuller, Amol Deshpande, Koyel Mukherjee. **To Store or Not to Store: a graph theoretical approach for Dataset Versioning**. 2022.
- [10] Jittat Fakcharoenphol, Bundit Lekhanukit, Pattara Sukprasert. **Finding All Useless Arcs in Directed Planar Graphs**. *arXiv 2017*.

RELEVANT ACTIVITIES

Teaching Experience

CS 336 Design & Analysis of Algorithms — Northwestern University	Spring 2020, Spring 2022
CMSC 132 Object-Oriented Programming II — University of Maryland	Spring 2019
CMSC 451 Design and Analysis of Computer Algorithms — University of Maryland	Fall 2018
CMSC 122 Intro to Programming via the Web — University of Maryland	Fall 2017 and Spring 2018
Computers & Programming class — Kasetsart University (Thailand)	2014
International Olympiad in Informatics (IOI) Training Camp — The institute for the Promotion of Teaching Science and Technology (Thailand)	2013 - 2017

Reviewers

[ACDA'23](#), [AISTATS'23](#), [Algorithmica](#), [ALENEX'23](#), [SODA'23](#), [WADS'21](#), [STOC'21](#), [SODA'21](#), [SOSA'20](#), [ESA'19](#)

Community Services

Algorithm Coffee — Northwestern University Organize weekly CS theory seminar talks from faculty/student researchers.	Winter 2022, Spring 2022
STOC 2021 Student volunteer - Helped making talks available online.	June 2021
STOC 2020 Student volunteer - Be a technical host for a conference session as well as made talks available online.	June 2020
ALGO 2018 Member of the organizing committee - Developed and implemented a software solution used as the conference's timer.	August 2018
ACM-ICPC — Thailand Prepared problem sets and managed an online-judge system of several ICPC programming contests held by Universities in Thailand. The latest one was ACM-ICPC Asia Bangkok Regional Contest 2016.	2012 - 2016
Thailand Code Jom — NECTEC and Kasetsart University (Thailand) Prepared problem sets for Thailand Code Jom, an annual national programming contest for high-school and undergraduate students.	2013 - 2014
The 23rd International Olympiad in Informatics — Thailand Volunteer - organized the event and looked after international contestants from 78 countries around the world.	2011

AWARDS

Dean's Fellowship	2017 - 2018
ACM-ICPC Asia Phuket Regional - 7 th place	2011
ACM-ICPC Thailand National Contest - Three times winner	2010 - 2012
ACM-ICPC Asia Regional Contests - 7 times Honorable mentioned	2009 - 2012
IEEEExtreme 5.0 - Grand prize winner	2011
Asia-Pacific Informatics Olympiad - Bronze Medal	2009