

## EDUCATION

- 2019 - Present **Ph.D. in Computer Science**  
Northwestern University  
Advisor Prof. **Samir Khuller**
- 2017 - 2019 **Master of Science in Computer Science**  
University of Maryland College Park  
Advisor Prof. **Samir Khuller**
- 2014 - 2018 **Master of Engineering in Computer Engineering**  
Faculty of Engineering, Kasetsart University, Thailand  
Advisor Prof. **Jittat Fakcharoenphol**
- 2009 - 2013 **Bachelor of Engineering in Computer Engineering**  
Faculty of Engineering, Chulalongkorn University, Thailand

## RESEARCH INTERESTS

Algorithms, Graph Theory, Approximation Algorithms, Combinatorial Optimization, Scheduling, Connectivity, Data Structures

## PUBLICATIONS & MANUSCRIPTS

- Multi-transversals for Triangles and the Tuza's Conjecture** to appear in [SODA'20](#)  
co-authors Parinya Chalermsook, Samir Khuller, Sumedha Uniyal
- Finding All Useless Arcs in Directed Planar Graphs** [arXiv](#)  
co-authors Jittat Fakcharoenphol, Bundit Lekhanukit

## WORK EXPERIENCES

- Software Engineer Intern** June 2019 - September 2019  
- Developing Quora mobile apps on both iOS and Android.
- Research Intern, Aalto University in Finland** May 2018 - August 2018  
- Worked on fast approximation algorithm for connectivity problems.
- Language Operation Engineer, The Optimum Solutions, Worked at Google Singapore**  
— *[C++, Javascript, JAVA, Bashscript, Python]* Oct 2016 - August 2017  
- Worked on Natural Language Processing tasks, especially data collection tools, for different languages.
- Language Operation Engineer, Kelly Services Staffing, Worked at Google Thailand**  
— *[C++, JAVA, Bashscript, Python]* June 2015 - June 2016
- Application Engineer, The Stock Exchange of Thailand** — *[HTML/CSS, JAVA, JSP]* May 2013 - Apr 2014  
- Developed a part of an online stock trading system *Streaming* used by millions in Thailand.

## EXTRACURRICULAR ACTIVITIES

### Teaching Assistant

- CMSC 451 Design and Analysis of Computer Algorithms, UMD** Fall 2018  
A second course on Algorithm. Taught students fundamental techniques for designing efficient algorithms and analyzing their complexities.
- CMSC 122 Intro to Programming via the Web, UMD** Fall 2017 and Spring 2018  
Gave introduction to internet/web and to programming for students with no previous background.

Taught basic programming in C# to freshmen.

**IOI Selection Camp**, IPST, Thailand

2013 - 2017

Taught algorithms and data structures to high-school students and prepared the problem sets for selecting the Thai team for *the International Olympiad in Informatics*.

## Reviewers

**Symposium on Simplicity in Algorithms (SOSA)**

2020

**European Symposium on Algorithms (ESA)**

2019

## Community Services

**ALGO 2018**

August 2018

An organizing committee — Implemented a software solution used as the conference's timer.

**ACM-ICPC**, Thailand

2012 - 2016

Prepared problem sets and managed an online-judge system of several ICPC programming contests held by Universities in Thailand. The latest one is ACM-ICPC Asia Bangkok Regional Contest 2016.

**Thailand Code Jom**, NECTEC and Kasetsart University

2013 - 2014

Prepared suitable problem sets for Thailand Code Jom, an annual countrywide programming contest held for fun.

**The 23<sup>rd</sup> International Olympiad in Informatics**, Pattaya, Thailand

2011

As a member of the volunteer staff, organized the events and looked after contestants from around the world.

## AWARDS

**Dean's Fellowship**

2017 - 2018

**ACM-ICPC Asia Phuket Regional** - 7<sup>th</sup> place

2011

**ACM-ICPC Thailand National Contest** - Three times winner

2010 - 2012

**IEEEExtreme 5.0** - Grand prize winner

2011