

# CHANUWAS (NEW) ASWAMENAKUL

Contact: [chanuwas.asw@gmail.com](mailto:chanuwas.asw@gmail.com) | 209-201-5415

Website: <https://chasnew.github.io>

Github repo: <https://github.com/chasnew>

## RESEARCH INTERESTS

Political institutions and group decision-making dynamics, Social dynamics and political structures, Consequences of institutional arrangements on economic inequality, Formal modeling including dynamical system and agent-based models

## EXPERIENCE

### SIAMETRICS CONSULTING

#### DATA SCIENTIST / JAN 2018 - JUN 2021

Supervisor: Napat Jatusripitak

responsibilities include building a sales forecasting model for multiple retail stores, analyzing traffic accident data to identify characteristics of streets that associate with accident risk, and creating a simulation model informed by empirical data to estimate the cost of commute time in Bangkok.

### THAILAND'S NATIONAL ELECTRONICS AND COMPUTER TECHNOLOGY CENTER

#### INTERN / APR 2014 - NOV 2014

Supervisor: Marut Buranarach

I worked on a mini-project to improve the responsiveness of a semantic search engine and conducted a study to compare the performance of three different database systems for semantic search technology.

## EDUCATION

### PH.D. IN COGNITIVE AND INFORMATION SCIENCES, UNIVERSITY OF CALIFORNIA MERCED 2021 - PRESENT (GPA 4.00)

Advisors: Tyler Marghetis and Paul Smaldino

Relevant courses include foundation of cognitive science, Authoritarian politics, advanced topics in ecology and evolutionary biology, and Modeling social behaviors

## M.S. IN COMPUTER SCIENCE, UNIVERSITY OF SOUTHERN CALIFORNIA / 2016 - 2018 (GPA 3.78)

Advisor: Stefan Scherer

Master's project: Multimodal analysis of motivational interviewing to classify client's utterances

Relevant courses include machine learning, applied natural language processing, and affective computing

## B.E. IN COMPUTER ENGINEERING, KHON KAEN UNIVERSITY / 2011 - 2015 (GPA 3.85)

Advisor: Kanda Runapongsa Saikaew

Relevant courses include theory of computation, artificial neural network, and human-computer interaction

## ADDITIONAL TRAINING

- 2019: Machine Learning Research School. Digital Economy Promotion Agency (DEPA), Bangkok, Thailand.
- 2022: Complex Systems Summer School. Santa Fe Institute, Santa Fe, NM
- 2023: Toulouse Summer School in Quantitative Social Sciences.  
The Institute for Advanced Study in Toulouse, Toulouse, France

## FELLOWSHIPS

- 2023-2024: Mercatus Center's Elinor Ostrom Fellowship

## PAST PUBLICATIONS

- Saikaew, K. R., Chaipah, K., Taweeprawadej, W., Feungchan, W., Siangsan, K., Saibuatong, J., Asawamenakul, C., Chaiudomsom, K., Patjanasontorn, N., Suphakunpinyo, C., Rongbudsri, S., & Paholpak, S. (2019). Applications to Screen Children with Autism Spectrum Disorder. *2019 23rd International Computer Science and Engineering Conference (ICSEC)*, 70-75.  
<https://doi.org/10.1109/ICSEC47112.2019.8974755>
- Aswamenakul, C., Liu, L., Carey, K. B., Woolley, J., Scherer, S., & Borsari, B. (2018). Multimodal Analysis of Client Behavioral Change Coding in Motivational Interviewing. *Proceedings of the 20th ACM International Conference on Multimodal Interaction*, 356-360.  
<https://doi.org/10.1145/3242969.3242990>
- Saikaew, K. R., Asawamenakul, C., & Buranarach, M. (2014). Design and evaluation of a NoSQL database for storing and querying RDF data. *4, 41, KKU Engineering Journal*.  
<https://doi.org/10.14456/KKUENJ.2014.38>