

CHANUWAS (NEW) ASWAMENAKUL

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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

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

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

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
- 2024-2025: Mercatus Center's Oskar Morgenstern Fellowship

PUBLICATIONS

- Aswamenakul, C., Smaldino, P. E., & Marghetis, T. (2025, April 25). Speed-Quality Tradeoffs Shape the Structure of Decision-Making Collectives. https://doi.org/10.31235/osf.io/bxew4_v1 (preprint)
- Dayer, A., Aswamenakul, C., Turner, M. A., Nicolay, S., Wang, E., Shurik, K., & Holbrook, C. (2024). Intuitive moral bias favors the religiously faithful. *Scientific Reports*, 14(1), 18291. <https://doi.org/10.1038/s41598-024-67960-4>
- Saikaew, K. R., Chaipah, K., Taweepworadej, W., Feungchan, W., Siangsanan, 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>