Titipat Achakulvisut

PERSONAL INFORMATION	Tenure track lecturer Department of Biomedical Engineering Mahidol University 999 Phutthamonthon 4 Road, Salaya, Nakhon Pathom, Thailand 73170	☐ Google Scholar ☑ my.titipat@gmail.com ☑ github.com/titipata ☐ Lab website ☑ titipata	
Interests	Science of Science, Applied Machine Learning, Text Mining, Natural Language Processing, Content-based and Personalized Recommendation System, Medical Electronic Health Records		
EDUCATION	University of Pennsylvania, Philadelphia, PA, USA Ph.D., Bioengineering	$2017 - 2021 \ (\mathrm{GPA}\ 3.97/4.0)$	
	Northwestern University, Evanston, IL, USA M.S./Ph.D., Biomedical Engineering	2013 - 2017 (GPA $3.95/4.0$)	
	Chulalongkorn University , Bangkok, Thailand B.Eng, Electrical Engineering, <i>First Class Honors</i>	2008 - 2012 (GPA $3.87/4.0$)	
GRANTS & FELLOWSHIPS	DARPA Systematizing Confidence in Open Research and E Thailand Youth Start-Up Grant Microsoft Azure Research Award \$20,000 Royal Thai Government Scholarship, Ministry of Science and	$2021 \\ 2015 - 2016$	
Positions	Co-founder of Neuromatch Conference Online Co-chair Asian Conference on Machine Learning National Institute of Health Special Volunteer	$2021 \\ 2016 - 2021$	
RESEARCH EXPERIENCE	Allen Institute for Artificial Intelligence Intership Mentor: Chandra Bhagavatula Research: Scientific Claim Indentification and Evidence Ala	Spring 2017 Symmet	
	Research Intern AIM Laboratory, Department of Biomedical Engineering Mahidol University, Salaya, Thailand	2012 - 2013	
	Undergraduate Research DSPRL Laboratory, Department of Electrical Engineering Chulalongkorn University, Bangkok, Thailand Advisor: Nisachon Tangsangiumvisai Research: Adaptive Filter and Noise Reduction Algorithm	2011 – 2012	
Talks	Department of Biomedical Engineering, Mahidol University	, Salaya March 2021	
	AI generates Thai lyrics, Bangkok Music City	October 2020	
	Natural Language and its application, Srinakharinwirot Un	iversity, Bangkok October 2020	
	Data Science in e-commerce, Knowledge Exchange, Bangko	k August 2020	
	Growth Lab, Harvard, University, Boston	April 2019	
	Python Data Science Meetup, Hangar, Bangkok	August 2017	
	Python Meetup Seattle (Puppy), Zillow, Seattle	June 2017	
	Brain and Behaviour lab, Imperial College London	September 2016	

Data visualization judging panel, Northwestern Computational Research day April 2016 HAMLET group, University of Wisconsin at Madison, Madison March 2016 ChiPy (Chicago Python community), Bank of America, Chicago February 2016 Knowledge Lab, University of Chicago, Chicago November 2015 SONIC lab, Northwestern University, Chicago April 2015

JOURNAL ARTICLES T Achakulvisut, T Ruangrong, P Mineault, TP Vogels, MAK Peters, P Poirazi, C Rozell, B Wyble, D Goodman, KP Kording (2020) Towards Democratizing and Automating Online Conferences: Lessons from the Neuromatch Conferences. Trends in Cognitive Sciences

> T van Viegen et al. (2020), Neuromatch Academy: Teaching Computational Neuroscience with global accessibility. arXiv preprint (see on **(5)**)

> Achakulvisut T, Ruangrong T, Acuna DE, Wyble B, Goodman D, Kording K (2020) neuromatch: Algorithms to match scientists. eLife Labs

> T Achakulvisut, T Ruangrong, I Bilgin, S Van Den Bossche, B Wyble, D Goodman, K Kording (2020), Improving on legacy conferences by moving online. eLife, 2020

> T Achakulvisut, DE Acuna, K Kording (2020) Pubmed parser: a Python parser for PubMed Open-Access XML subset and MEDLINE XML dataset XML dataset. Journal of Open Source Software

> M Jas et al. (2020) Pyglmnet: Python implementation of elastic-net regularized generalized linear models. Journal of Open Source Software (see on 👼)

> Achakulvisut T, Bhagavatula C, Acuna D, Kording K (2019) Claim extraction in biomedical publications using deep discourse model and transfer learning. arXiv preprint arXiv:1907.00962 (see on **(5**)

> Kittinaradorn R, Achakulvisut T, Chaovavanich K, Srithaworn K, P Chormai, C Kaewkasi, T Ruangrong, K Oparad K (2019) Deep Cut: A Thai word tokenization library using Deep Neural Network. Github (see on **5**)

> Lienard JF, Achakulvisut T, Acuna DE, David SV (2018) Intellectual Synthesis in Mentorship Determines Success in Academic Careers. Nature communications

> Achakulvisut T, Acuna DE, Ruangrong T, Kording K (2016) Science Concierge: A Fast Content-Based Recommendation System for Scientific Publications. PLOS ONE 11(7): e0158423. doi:10.1371/journal.pone.0158423 (see on **5**)

Conferences

T. Achakulvisut, D. E. Acuna, K. P. Kording,

July 2017

Clustering conference abstracts using a combination of author preferences and topic relevance, Knowledge of Network Science Conference

D. E. Acuna, T. Achakulvisut, K. P. Kording

October 2015

How to visit 0.5% of 15,000 possible posters? Automated poster visit scheduler for SfN Society for Neuroscience conference

D. E. Acuna, T. Achakulvisut, K. P. Kording

June 2015

Automatic Paper-Reviewer Assignment and Manuscript Scoring

Science of Team Science conference

PROJECTS

Scholarfy - content-based recommendation for MEDLINE dataset

Recommendation system web application to search 28 million publications from MEDLINE dataset

Machine Learning facilitates Neuroscience Conferences

One-on-one matching algorithm for CCN conference, Paper-reviewer matching for COSYNE conference, Content-based recommnedation engine for SfN conference

AWARDS & FELLOWSHIPS	2^{nd} place at Bangkok Datathon, Analyzing Bangkok Budget 2^{nd} place student case competition, Wharton People Analytics Conference 2^{nd} place in Data Visualization Competition, Northwestern Computational Research of Outstanding Academic Performance in Engineering Nominated candidate for the Ananda Mahidol Scholarship SCG Innovative Suggestion Award 1^{st} place in Mathematics Entrance Exam, ONET, Thailand	day 2008 –	2020 2018 2015 2012 2012 2011 2008
SELECTED EXTRACURRICULAR ACTIVITIES	AI Builders: Teaching AI to high school students in Thailand Summer School in Computational Sensory-Motor Neuroscience (CoSMo) Brain Fair, Northwestern University Brain Awareness Outreach NECTEC Electronics Camp: Teaching electronics to high school students Teaching basic science in remote areas of Thailand Head of Freshmen Tutorial Project: Teaching basic science for freshmen Physics Olympiad Camp	2008 -	2009
COMPUTER SKILLS	Programming and Scripting Languages: Advanced: Python, Apache Spark, MATLAB, Mathematica Intermediate: Julia, HTML, CSS, JavaScript, Java, R, C, AngularJS, Scala Others: I₄TEX, Emacs, Git, Adobe Illustrator, Microsoft Office Cloud Computing: Amazon EC2, Google Cloud Computing, Microsoft Azure Operating Systems: Mac OS X, Linux, Windows		

Thai (Native), English (Proficient)

LANGUAGES