







Titipat Achakulvisut

PERSONAL INFORMATION	Tenure track lecturer Department of Biomedical Engineering Mahidol University 999 Phutthamonthon 4 Road, Salaya, Nakhon Pathom, Thailand 73170	<input type="checkbox"/> Google Scholar <input checked="" type="checkbox"/> my.titipat@gmail.com  github.com/titipata <input type="checkbox"/> biodatlab.github.io  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 Northwestern University , Evanston, IL, USA M.S., Biomedical Engineering Chulalongkorn University , Bangkok, Thailand B.Eng, Electrical Engineering, <i>First Class Honors</i>	2017 – 2021 (GPA 3.97/4.0) 2013 – 2017 (GPA 3.95/4.0) 2008 – 2012 (GPA 3.87/4.0)
GRANTS & FELLOWSHIPS	NRCT Developing Artificial Intelligence System for Glaucoma Detection Developing Vision-based Artificial Intelligence System for Electrocardiogram Classification, Boehringer Ingelheim (Thai) Ltd. DARPA Systematizing Confidence in Open Research and Evidence funding Thailand Youth Start-Up Grant Microsoft Azure Research Award \$20,000 Royal Thai Government Scholarship, Ministry of Science and Technology	2022 – 2023 2022 2020 – 2022 2021 2015 – 2016 2012 – 2020
POSITIONS	Program committee International Society for Computational Biology Co-founder and organizer at Neuromatch Conference Online Co-chair at Asian Conference on Machine Learning National Institute of Health Special Volunteer Organizer at ACML Workshop on Machine Learning in Thailand	2022 2020 2021 2016 – 2021 2020
RESEARCH EXPERIENCE	Allen Institute for Artificial Intelligence Internship <i>Mentor: Chandra Bhagavatula</i> <i>Research: Scientific Claim Identification and Evidence Alignment</i> Research Intern <i>AIM Laboratory, Department of Biomedical Engineering</i> <i>Mahidol University, Salaya, Thailand</i> Undergraduate Research <i>DSPRL Laboratory, Department of Electrical Engineering</i> <i>Chulalongkorn University, Bangkok, Thailand</i> <i>Advisor: Nisachon Tangsangiumvisai</i> <i>Research: Adaptive Filter and Noise Reduction Algorithm</i>	Spring 2017 2012 – 2013 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 University, Bangkok	October 2020
Data Science in e-commerce, Knowledge Exchange, Bangkok	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 )
- 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 (see on )
- 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 )
- Kittinaradorn R, Achakulvisut T, Chaovavanich K, Srithaworn K, P Chormai, C Kaewkasi, T Ruangrong, K Oparad K (2019) *DeepCut: A Thai word tokenization library using Deep Neural Network*. Github (see on )
- 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 )

CONFERENCES	T. Achakulvisut, D. E. Acuna, K. P. Kording, <i>Clustering conference abstracts using a combination of author preferences and topic relevance</i> , Knowledge of Network Science Conference	July 2017
	D. E. Acuna, T. Achakulvisut, K. P. Kording <i>How to visit 0.5% of 15,000 possible posters? Automated poster visit scheduler for SfN</i> Society for Neuroscience conference	October 2015
	D. E. Acuna, T. Achakulvisut, K. P. Kording <i>Automatic Paper-Reviewer Assignment and Manuscript Scoring</i> Science of Team Science conference	June 2015
PROJECTS	Scholarfy - content-based recommendation for MEDLINE dataset <i>Recommendation system web application to search 28 million publications from MEDLINE dataset</i>	
	Machine Learning facilitates Neuroscience Conferences <i>One-on-one matching algorithm for CCN conference, Paper-reviewer matching for COSYNE conference, Content-based recommendation engine for SfN conference</i>	
AWARDS	2 nd place at Bangkok Datathon, <i>Analyzing Bangkok Budget</i>	2020
	2 nd place student case competition, Wharton People Analytics Conference	2018
	2 nd place in Data Visualization Competition, Northwestern Computational Research day	2015
	Outstanding Academic Performance in Engineering	2008 – 2012
	Nominated candidate for the Ananda Mahidol Scholarship	2012
	SCG Innovative Suggestion Award	2011
	1 st place in Mathematics Entrance Exam, ONET, Thailand	2008
SELECTED EXTRACURRICULAR ACTIVITIES	Google Summer of Code Mentor: Automatic reviewer matching for NBDT Journal	2022
	AI Builders: Teaching AI to high school students in Thailand	2021 – 2022
	Summer School in Computational Sensory-Motor Neuroscience (CoSMo)	2014
	Brain Fair, Northwestern University Brain Awareness Outreach	2014
	NECTEC Electronics Camp: Teaching electronics to high school students	2010
	Teaching basic science in remote areas of Thailand	2008 – 2010
	Head of Freshmen Tutorial Project: Teaching basic science for freshmen	2009
	Physics Olympiad Camp	2006 – 2007
COMPUTER SKILLS	Programming and Scripting Languages: <i>Advanced:</i> Python, Apache Spark, MATLAB, Mathematica <i>Intermediate:</i> Julia, HTML, CSS, JavaScript, Java, R, C, AngularJS, Scala Others: L ^A T _E X, Emacs, Git, Adobe Illustrator, Microsoft Office Cloud Computing: Amazon EC2, Google Cloud Computing, Microsoft Azure Operating Systems: Mac OS X, Linux, Windows	
LANGUAGES	Thai (Native), English (Proficient)	