

# Titipat Achakulvisut




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PERSONAL INFORMATION	PhD Candidate Department of Bioengineering University of Pennsylvania 106 Hayden Hall, 240 S 33rd St, Philadelphia, PA 19104	☎ (224) 999-3633 ✉ my.titipat@gmail.com 🐱 <a href="https://github.com/titipata">https://github.com/titipata</a> 📄 <a href="https://tupleblog.github.io">https://tupleblog.github.io</a> 📖 titipata 🔍 Google Scholar
INTERESTS	Science of Science, Applied Machine Learning, Text Mining, Natural Language Processing, Content-based and Personalized Recommendation System, Medical Electronic Health Records	
EDUCATION	<b>University of Pennsylvania</b> , Philadelphia, PA, USA Ph.D., Bioengineering <b>Northwestern University</b> , Evanston, IL, USA M.S./Ph.D., Biomedical Engineering <b>Chulalongkorn University</b> , Bangkok, Thailand B.Eng, Electrical Engineering, <i>First Class Honors</i>	2017 – Present (GPA 3.97/4.0) 2013 – 2017 (GPA 3.95/4.0) 2008 – 2012 (GPA 3.87/4.0)
AWARDS & FELLOWSHIPS	Thailand Youth Start-Up Grant 2 <sup>nd</sup> place at Bangkok Datathon, <i>Analyzing Bangkok Budget</i> DARPA Systematizing Confidence in Open Research and Evidence funding Royal Thai Government Scholarship, Ministry of Science and Technology 2 <sup>nd</sup> place student case competition, Wharton People Analytics Conference Microsoft Azure Research Award \$20,000 2 <sup>nd</sup> place in Data Visualization Competition, Northwestern Computational Research day Outstanding Academic Performance in Engineering Nominated candidate for the Ananda Mahidol Scholarship SCG Innovative Suggestion Award 1 <sup>st</sup> place in Mathematics Entrance Exam, ONET, Thailand	2021 2021 2020 – 2021 2012 – 2020 2018 2015 – 2016 2015 2008 – 2012 2012 2011 2008
RESEARCH EXPERIENCE	<b>Allen Institute for Artificial Intelligence Internship</b> <i>Mentor: Chandra Bhagavatula</i> <i>Research: Scientific Claim Identification and Evidence Alignment</i> <b>Research Intern</b> <i>AIM Laboratory, Department of Biomedical Engineering</i> <i>Mahidol University, Salaya, Thailand</i> <b>Undergraduate Research</b> <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

## TALK

Department of Biomedical Engineering, Mahidol University, Salaya	March 2021
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
- 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
- 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 (see <a href="http://www.scholarfy.net">www.scholarfy.net</a> )	October 2015
	D. E. Acuna, T. Achakulvisut, K. P. Kording <i>Website for Automatic Reviewer Assignment and Manuscript Scoring</i> Science of Team Science conference (see <a href="http://pr.scienceofscience.org">pr.scienceofscience.org</a> )	June 2015
PROJECTS	<b>Scholarfy - content-based recommendation for MEDLINE dataset</b> <i>Recommendation system web application to search 28 million publications from MEDLINE dataset</i>	
	<b>Machine Learning facilitates Neuroscience Conferences</b> <i>One-on-one matching algorithm for CCN conference, Paper-reviewer matching for COSYNE conference, Content-based recommendation engine for SfN conference</i>	
MEMBERSHIP	Neuromatch Conference Organizer	2020 – present
	NIH Special Volunteer	2016 – present
	Member of the McCormick Graduate Leadership Council, Northwestern U	2014 – 2015
	IEEE Student Membership	2011 – 2015
	Member of the Engineering Students Academic Club	2008 – 2011
	Member of the Engineering Light and Sound Club	2008 – 2011
SELECTED EXTRACURRICULAR ACTIVITIES	<b>AI Builders: Teaching AI to high school students in Thailand</b>	2021
	<b>Summer School in Computational Sensory-Motor Neuroscience (CoSMo)</b>	2014
	<b>Brain Fair, Northwestern University Brain Awareness Outreach</b>	2014
	<b>NECTEC Electronics Camp: Teaching electronics to high school students</b>	2010
	<b>Teaching basic science in remote areas of Thailand</b>	2008 – 2010
	<b>Head of Freshmen Tutorial Project: Teaching basic science for freshmen</b>	2009
	<b>Physics Olympiad Camp</b>	2006 – 2007
COMPUTER SKILLS	<b>Programming and Scripting Languages:</b> <i>Advanced:</i> Python, Apache Spark, MATLAB, Mathematica <i>Intermediate:</i> Julia, HTML, CSS, JavaScript, Java, R, C, AngularJS, Scala <b>Others:</b> L <sup>A</sup> T <sub>E</sub> X, Emacs, Git, Adobe Illustrator, Microsoft Office	
	<b>Cloud Computing:</b> Amazon EC2, Google Cloud Computing, Microsoft Azure	
	<b>Operating Systems:</b> Mac OS X, Linux, Windows	
LANGUAGES	Thai (Native), English (Proficient)	