Titipat Achakulvisut

PERSONAL INFORMATION

PhD Candidate
Department of Bioengineering
University of Pennsylvania
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⊙ https://github.com/titipata
⬚ https://tupleblog.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 — 2017 – Present
Ph.D., Bioengineering — (GPA 3.97/4.0)

Northwestern University, Evanston, IL, USA — 2013 – 2017
M.S./Ph.D., Biomedical Engineering — (GPA 3.95/4.0)

Chulalongkorn University, Bangkok, Thailand — 2008 – 2012
B.Eng, Electrical Engineering — (GPA 3.87/4.0)
First Class Honors

AWARDS & FELLOWSHIPS

Royal Thai Government Scholarship, Ministry of Science and Technology — 2012 – present
2nd place student case competition, Wharton People Analytics Conference — 2018
Biases and Disagreement in Fellowship Selection Process Insights & Strategies
Microsoft Azure Research Award $20,000 — 2015 – 2016
2nd place in Data Visualization Competition, NU Computational Research day — 2015
Outstanding Academic Performance in Engineering — 2008 – 2012
Nominated candidate for the Ananda Mahidol Scholarship — 2012
SCG Innovative Suggestion Award — 2011
1st place in Mathematics Entrance Exam, ONET, Thailand — 2008

RESEARCH EXPERIENCE

Allen Institute for Artificial Intelligence Intership — Spring 2017
Mentor: Chandra Bhagavatula
Research: Scientific Claim Indentification and Evidence Alignment

Master's Research — 2014 – 2015
Rehabilitation Institute of Chicago (RIC), Northwestern University
Advisor: Konrad Kording
Research: A fast content-based recommendation system for scientific publications

Research Intern — 2012 – 2013
AIM Laboratory, Department of Biomedical Engineering
Mahidol University, Salaya, Thailand

Undergraduate Research — 2011 – 2012
DSPRL Laboratory, Department of Electrical Engineering
Chulalongkorn University, Bangkok, Thailand
Advisor: Nisachon Tangsangiumvisai
Research: Adaptive Filter and Noise Reduction Algorithm

TALK	Talk at Python Data Science Meetup, Hungar, Bangkok	August 2017
	Talk at Python Meetup Seattle (Puppy), Zillow, Seattle	June 2017
	Invited talk at Brain and Behaviour lab, Imperial College London	September 2016
	Data visualization judging panel, Northwestern Computational Research day	April 2016
	Invited talk at HAMLET group, University of Wisconsin at Madison	March 2016
	Invited talk at ChiPy (Chicago Python community), Bank of America	February 2016
	Invited talk at Knowledge Lab, University of Chicago	November 2015
	Invited talk at SONIC lab, Northwestern University	April 2015

JOURNAL ARTICLE

Achakulvisut T, Acuna DE, Brandfonbrener D, Kording KP (2018) *Writing Style and the Review Process.* (ongoing)

Achakulvisut T, Acuna DE, Bassett DS, Kording KP (2018) *Unique subfields of neuroscience exhibit more diverse language.* (under review, PLOS ONE)

Lienard JF, Achakulvisut T, Acuna DE, David SV (2018) *Intellectual Synthesis in Mentorship Determines Success in Academic Careers.* bioRxiv, 273888

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,   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 (see www.scholarfy.net)

D. E. Acuna, T. Achakulvisut, K. P. Kording   June 2015
Website for Automatic Reviewer Assignment and Manuscript Scoring
Science of Team Science conference (see pr.scienceofscience.org)

PATENT

Konrad Kording, Daniel E. Acuna, Titipat Achakulvisut. *Data Butler.*   2015
U.S. Provisional Patent Application No. 62/218,998, filed September 15, 2015
(assignee Rehabilitation Institution of Chicago)

MEDIA

PLOS Blogs, #PLOS #SfN15 preview: build your itinerary with this great new tool (see article)

PROJECTS

Scholarfy - content-based recommendation for MEDLINE dataset
Recommendation system web application to search 28 million publications from MEDLINE dataset (see scholarfy.net)

Pubmed Parser
Python parser for PubMed Open-Access (OA) subset and MEDLINE XML repository (see on 🐙)

Open Source Projects
deepcut, pyglmnet, affiliation_parser, face-classification-js, MrChrisJohnson/implicit-mf

MEMBERSHIP	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

Summer School in Computational Sensory-Motor Neuroscience (CoSMo) 2014

Brain Fair 2014
Volunteered with Northwestern University Brain Awareness Outreach (NUBAO) educating Chicago community about the brain

Head of Educational Parts, NECTEC Electronics Camp 2010
Taught basic electronics and circuit theory using laboratory experiments

Member of the Funfueng Camp 2008 – 2010
Tutored Mathematics and Natural Sciences to students in remote areas of Thailand

Head of Freshmen Tutorial Project 2009
Recruited engineering tutors for Calculus, Physics, Chemistry, and Basic Computer Programming (I was also a tutor from 2008 – 2012)

Physics Olympiad Camp 2006 – 2007

COMPUTER SKILLS

Programming and Scripting Languages:
Advanced: Python, Apache Spark, MATLAB, Mathematica
Intermediate: Julia, HTML, CSS, JavaScript, Java, R, C, AngularJS, Scala

Others: LaTeX, 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)