

# Peratham Wiriyathamabhum

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CONTACT INFORMATION	1/171-172 Silom Grand Terrace Saladaeng Soi 2, Silom Bangrak District Bangkok, Thailand, 10500	<i>Mobile: +668-9993-3315</i> <i>E-mail: peratham.bkk@gmail.com</i> <i>WWW(resume): [https://perathambkk.github.io/]</i>
RESEARCH INTERESTS	Computer Vision and Natural Language Processing (Vision and Language) with Deep Learning. Keywords: <i>Video Analysis, Multi-modal Grounding.</i>	
EDUCATION	<b>University of Maryland</b> , College Park, USA <i>Department of Computer Science</i> M.S. in Computer Science, GPA 3.68 <b>August 2013 - December 2015</b> <ul style="list-style-type: none"><li>Scholarly Paper: “Computer Vision and Natural Language Processing: Recent Approaches in Multimedia and Robotics” published at ACM CSUR (IF: 6.748).</li></ul> <b>Chulalongkorn University</b> , Phyathai, Bangkok, Thailand <i>Department of Computer Engineering</i> M.Eng. (Very Good Thesis), GPA 4.00. <b>May 2009 - May 2010</b> <ul style="list-style-type: none"><li>Thesis Topic: “An approach to Basis Selection for Dimensional Reduction techniques.” [pdf]</li><li>Faculty of Engineering scholarship</li><li>I am the only one in my class year who graduated within 1 year instead of normally 2 years.</li></ul> <b>Chulalongkorn University</b> , Phyathai, Bangkok, Thailand <i>Department of Computer Engineering</i> B.Eng. (Second-class Honors), GPA 3.44. <b>June 2005 - April 2009</b> <ul style="list-style-type: none"><li>Senior Project Topic: “Techniques for Dimensionality Reduction.”</li><li>Consolation Prize, Computer Engineering Project Presentation by Exxon Mobil Corporation.</li><li>GPA in major courses: 3.63, GPA in year 3 and 4: 3.74</li></ul>	
INTERNSHIPS	<b>US Army Research Lab</b> , Adelphi, MD, USA <i>Summer Research Internship/Summer Journeyman Fellowship</i> <b>May 2016 - August 2016</b> Mentor: Dr. Douglas Summers-Stay <b>Settrade.com Co.,Ltd, Subsidiary of Stock Exchange of Thailand (SET)</b> , Thailand <i>Software Developer Internship</i> <b>March 2008 - May 2008</b>	
SELECTED PUBLICATIONS	<b>Peratham Wiriyathamabhum</b> : PromptShots at the FinNLP-2022 ERAI Tasks: Pairwise Comparison and Unsupervised Ranking. In Proceedings of the 4th Workshop on Financial Technology and Natural Language Processing (FinNLP)@EMNLP’22, ACL, 2022. (1 <sup>st</sup> place in maximal potential profit (MPP) unsupervised ranking, 3 <sup>rd</sup> place in maximal loss (ML) pairwise comparison)  Vanni Zavarella, Hristo Tanev, Ali Hürriyetoğlu, <b>Peratham Wiriyathamabhum</b> , Bertrand De Longueville: Tracking COVID-19 protest events in the United States. Shared Task 2: Event Database Replication, CASE 2022. In Proceedings of the 5th Workshop on Challenges and Applications of Automated Extraction of Socio-political Events from Text (CASE)@EMNLP’22, ACL, 2022.  <b>Peratham Wiriyathamabhum</b> : TTCB System description to a shared task on implicit and underspecified language 2021. In Proceedings of the First Workshop on Understanding Implicit and	

Underspecified Language@ACL'21, ACL, 2021. (1<sup>st</sup> place)

**Peratham Wiriyathamabhum**, Abhinav Shrivastava, Vlad I. Morariu and Larry S. Davis: Referring to Objects in Videos using Spatio-Temporal Identifying Descriptions, In Proceedings of the NAACL Workshop on Shortcomings in Vision and Language (SiVL@NAACL'19), ACL, 2019. Oral. (also presented at Computer Vision for Animal Behavior Tracking and Modeling (CV4Animals Workshop @ CVPR'21.)

**Peratham Wiriyathamabhum**, Douglas Summers-Stay, Cornelia Fermüller, and Yiannis Aloimonos. 2016. Computer Vision and Natural Language Processing: Recent Approaches in Multimedia and Robotics. ACM Computing Survey 49, 4, Article 71 (December 2016), 44 pages. (2016 Impact Factor: 6.748)

Bryan Ball, Mark Flood, H. V. Jagadish, Joseph Langsam, Louiqa Raschid, **Peratham Wiriyathamabhum**: A Flexible and Extensible Contract Aggregation Framework (CAF) for Financial Data Stream Analytics, ACM SIGMOD Conference, special workshop on Data Science for Macro-Modeling (DSMM'2014), 2014. [pdf]

**Peratham Wiriyathamabhum**, Boonserm Kijsirikul: Basis Selection for 2DLDA-Based Face Recognition Using Fisher Score, 16<sup>th</sup> International Conference on Neural Information Processing (ICONIP'09), Vol.1 pp.708-715, 2009. [pdf]

PROFESSIONAL  
SERVICES

Reviewer for:

- Image and Vision Computing (Elsevier IMAVIS) 2014, 2015, 2016, 2017
- Computer Vision and Image Understanding (Elsevier CVIU) 2014, 2016, 2017
- International Journal for Light and Electron Optics (IJLEO) 2020
- The Visual Computer (Elsevier TVCJ) 2016
- ACM Computing Surveys (ACM CSUR) 2013
- AAAI Conference on Artificial Intelligence (AAAI) 2016
- LatinX in CV (LXCV) Research at CVPR 2021-2025

HONORS AND  
AWARDS

Dean's Fellowship @ UMD 2013, 2014.

Monbukagakusho scholarship: MEXT, Japanese Government scholarship @ TokyoTech 2010-2011.

PROFESSIONAL  
EXPERIENCES

**Computational Linguistics and Information Processing (CLIP) Lab, University of Maryland, College Park, USA**

*Visiting Scholar*

**Jan 2013 - June 2013**

Advisor: Prof. Dr. William Rand and Prof. Dr. Louiqa Raschid

**University Office of Information Technology (IT Chula), Chulalongkorn University, Thailand**

*Java & J2EE Instructor*

**Jan 2012 - June 2012**

Project: Database Migration (Oracle to MySQL) and Banner Manager for Ads Display.

COMPUTER SKILLS

- Languages: Python, MATLAB, Java, L<sup>A</sup>T<sub>E</sub>X, C/C++
- Web Programming: Django, JavaScript, JSP, ReactJS, TypeScript, Redux, Firebase
- Platforms: Unix/Linux, Windows
- Data Science Libraries: PyTorch, TensorFlow, Keras, Pandas, Seaborn, Boto3, etc.
- Libraries: Hibernate, Struts, Spring, ServLet, Armadillo, etc.

LANGUAGE SKILLS

- Thai: Native, English: Working Level, Japanese: Basic Intermediate (JLPT Level3/N4)