Krikamol **Muandet**, *Dr. Rer. Nat.*

Max Planck Institute for Intelligent Systems • Max Planck Ring 4 • 72076 Tübingen• Germany

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Work Experience

Max Planck Institute for Intelligent Systems

Research Group Leader.

DUTIES: Conduct an independent research.

Department of Mathematics, Faculty of Science, Mahidol University

Lecturer in Mathematics.

DUTIES: Teach courses and conduct an independent research.

Max Planck Institute for Intelligent Systems

Research Scientist.

Education

DUTIES: Conduct an independent research.

Sirindhorn International Institute of Technology

Teaching Assistant, ITS100 Introduction to Programming in C.

DUTIES: Assist the instructor in the programming laboratory.

Sirindhorn International Institute of Technology

Teaching Assistant, ITS050 Introduction to Programming in C.

DUTIES: Assist the instructor in the programming laboratory.

Tübingen, Germany

Tübingen, Germany 01.04.2018 – Present

Bangkok, Thailand 04.01.2016 – 31.12.2017

Tübingen, Germany

01.06.2015 - 31.12.2015

Pathumthani, Thailand

Pathumthani, Thailand

2010

04.04.2011 – 31.05.2015

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

Ph.D. in Machine Learning (Summa Cum Laude)

SUPERVISOR: Prof. Bernhard Schölkopf

THESIS: "From Point to Probability Measures: Statistical Learning on Distri-

butions with Kernel Mean Embedding" DATE OF EXAMINATION: 30.09.2015

DATE OF AWARD: 21.12.2015 (University of Tübingen)

University College London

M.Sc. in Machine Learning (Distinction)

MASTER THESIS: "Infinite Independent Subspace Analysis"

THESIS SUPERVISOR: Prof. Yee Whye Teh M.Sc. Tutor: Prof. John Shawe-Taylor

Date of award: 01.11.2010

London, United Kingdom

10.2009 - 10.2010

SIRINDHORN INTERNATIONAL INSTITUTE OF TECHNOLOGY

B.Sc. in Computer Science (First Class Honor)

Scholarship: Young Scientist and Technologist Programme (YSTP)
Thesis: "Robust Graph Hyperparameter Learning for Graph-based SSL"
"Query Selection via Weighted Entropy for Graph-based SSL"

GPA: 3.97/4.00 | Rank: 1/441 DATE OF AWARD: 26.03.2009

MAHIDOL WITTAYANUSORN SCHOOL (PUBLIC ORGANISATION)

SCHOLARSHIP: Mahidol Wittayanusorn Scholarship PROJECT: "Moving Objects Detection in Video System"

GPA: 3.91/4.00

Pathumthani, Thailand

22.03.2005 - 26.03.2009

Nakornpathom, Thailand

03.2002 - 03.2005

Research Interests

My research interest lies in the area of artificial intelligence, machine learning, statistical learning theory, and its applications. The topics of interest include, but not limited to

- · Kernel methods in machine learning
- · Learning in high-dimensional space
- Causal learning and counterfactual prediction
- Bayesian inference and nonparametric models
- Computational astronomy

- · Semi-supervised learning
- · Multi-task and transfer learning
- · Reinforcement Learning
- Machine learning and economics
- Machine learning in observational studies

List of Publications

Iournal Articles

- <u>K. Muandet</u>, M. Kanagawa, S. Saengkyongam, and S. Marukatat, **Counterfactual Mean Embedding**, *Journal of Machine Learning Research*, Accepted, 2020.
- S. Klus, I. Schuster, <u>K. Muandet</u>, **Eigendecomposition of Transfer Operators in Reproducing Kernel Hilbert Spaces**, *Journal of Nonlinear Science*, 30, 283–315, 2020.
- J. Kübler, <u>K. Muandet</u>, B. Schölkopf, **Quantum Mean Embedding of Probability Distributions**, *Physical Review Research*, 1. 10.1103/PhysRevResearch.1.033159, 2019.
- N. Shah, B. Tabibian, <u>K. Muandet</u>, I. Guyon, U. von Luxberg. **Design and Analysis of NIPS 2016 Review Process**, *Journal of Machine Learning Research*, 19(49):1–34, 2018
- I. Tolstikhin, B. Sriperumbudur, and <u>K. Muandet</u>, **Minimax Estimation of Kernel Mean Embeddings**, Journal of Machine Learning Research, 18(86):1–47, 2017.
- <u>K. Muandet</u>, B. Sriperumbudur, K. Fukumizu, A. Gretton, and B. Schölkopf, **Kernel Mean Shrinkage Estimators**, *Journal of Machine Learning Research*, 17(48):1–41, 2016.
- B. Schölkopf, <u>K. Muandet</u>, K. Fukumizu, and J. Peters, **Computing Functions of Random Variables via Reproducing Kernel Hilbert Space Representations**, *Statistics and Computing*, Volume 25, Issue 4, pp. 755–766, 2015.
- D. Lopez-Paz, <u>K. Muandet</u>, and B. Recht, **Randomized Causation Coefficient**, *Journal of Machine Learning Research*, 16(Dec): 2901–2907, 2015.

Books

• <u>K. Muandet</u>, K. Fukumizu, B. Sriperumbudur, and B. Schölkopf, **Kernel Mean Embedding of Distributions: A Review and Beyond**, *Foundations and Trends*[®] *in Machine Learning Series*, Volumn 10: No. 1–2, pp 1–141, 2017 (ISBN: 9781680832884). Now Publishers.

Contributions to Books

• K. Zhang, B. Schölkopf, <u>K. Muandet</u>, Z. Wang, Z. Zhou, and C. Persello. **Single-Source Domain Adaptation with Target and Conditional Shift**, In *Regularization, Optimization, Kernels, and Support Vector Machines*, (Ed) JAK Suykens, M Signoretto, and A Argyriou, Chapman and Hall/CRC, Boca Raton, USA, 427–456

Conference Proceedings

- <u>K. Muandet</u>, W. Jitkrittum, and J. Kübler. **Kernel Conditional Moment Test via Maximum Moment Restriction**, the 36th Conference on Uncertainty in Artificial Intelligence (UAI 2020), Forthcoming.
- N. Kilbertus, M. Gomez-Rodriguez, B. Schölkopf, <u>K. Muandet</u>, and I. Valera. **Fair Decision Despite Imperfect Predictions**, *Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS 2020)*, PMLR 108:277–287, 2020.

- Ingmar Schuster, Mattes Mollenhauer, Stefan Klus, and <u>Krikamol Muandet</u>. **Kernel Conditional Density Operators**, *Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS 2020)*, PMLR 108:993–1004, 2020.
- Y. Zhang, S. Tang, <u>K. Muandet</u>, C. Jarvers, and H. Neumann. **Local Temporal Bilinear Pooling for Fine-grained Action Parsing**, *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2019)*, pp. 12005–12015, 2019.
- R. Babber, <u>K. Muandet</u>, and B. Schölkopf, **A Scalable Mixed-norm Approach for Learning Lightweight Models in Large-Scale Classification**, *SIAM International Conference on Data Mining (SDM 2016)*, pages 234–242, Miami, Florida, USA.
- D. Lopez-Paz, <u>K. Muandet</u>, B. Schölkopf, and Ilya Tolstikhin, **Towards a Learning Theory of Cause-Effect Inference**, *The 32nd International Conference on Machine Learning (ICML 2015)*, pages 1452–1461, Lille, France.
- <u>K. Muandet</u>, B. Sriperumbudur, and B. Schölkopf, **Kernel Mean Estimation via Spectral Filtering**, *The 28th Annual Conference on Neural Information Processing Systems (NIPS 2014)*, pages 1-9. MIT Press, 2014.
- G. Doran, <u>K. Muandet</u>, K. Zhang, B. Schölkopf, **A Permutation-Based Kernel Conditional Independence Test.** *the 30th Conference on Uncertainty in Artificial Intelligence (UAI 2014)*, pages 132–141. AUAI Press Corvallis, Oregon.
- <u>K. Muandet</u>, K. Fukumizu, B. Sriperumbudur, A. Gretton, and B. Schölkopf, **Kernel Mean Estimation and Stein Effect**. *The 31st International Conference on Machine Learning (ICML 2014)*, pages 10–18, Beijing, China.
- K. Zhang, B. Schölkopf, <u>K. Muandet</u>, and Z. Wang. **Domain Adaptation under Target and Conditional Shift**. *The 30th International Conference on Machine Learning (ICML 2013)*, pages 819–827, Atlanta, Georgia.
- K. Muandet and B. Schölkopf, **One-Class Support Measure Machines for Group Anomaly Detection**. *The 29th Conference on Uncertainty in Artificial Intelligence (UAI 2013)*, pages 449–458, AUAI Press, Corvallis, Oregon.
- <u>K. Muandet</u>, D. Balduzzi, and B. Schölkopf, **Domain Generalization via Invariant Feature Representation**. *The 30th International Conference on Machine Learning (ICML 2013)*, pages 10–18, Atlanta, Georgia.
- <u>K. Muandet</u>, K. Fukumizu, F. Dinuzzo, and B. Schölkopf, **Learning on Distributions via Support Measure Machines**, 2012. *The 26th Annual Conference on Neural Information Processing Systems (NIPS 2012)*, pages 10-18. MIT Press, 2012.
- <u>K. Muandet</u>, S. Marukatat, and C. Nattee. **Query Selection via Weighted Entropy for Graph-based Semi-Supervised Classification**. In *Proceedings of the 1st Asian Conference on Machine Learning (ACML'09)*, pages 278-292, Nanjing, China, 2009.
- <u>K. Muandet</u>, S. Marukatat, and C. Nattee. **Robust Graph Hyperparameter Learning for Graph-based Semi-Supervised Classification**. In *Proceedings of the 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'09)*, pages 98-109, Bangkok, Thailand, 2009.
- N. Patanachai, B. Uyyanonvara, C. Sinthanayothin, W. Tharanon, P. Sompot, and <u>K. Muandet</u>. **PACS (Picture Archiving Communication System) for Dentistry**. *The 5th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology, 2008. (ECTI-CON 2008)*, 1:77-80, May 2008.
- C. Sinthanayothin, <u>K. Muandet</u>, B. Uyyanonvara, and W. Tharanon. **Development of Dental Software: Introducing ADTEC Dicom Viewer**. In *Bone and Dental Technology Symposium*, 2007.

Workshop Contributions

- D. Lopez-Paz, <u>K. Muandet</u>, and B. Recht, **The Randomized Causation Coefficient**, NIPS 2014 Workshop on Modern Nonparametrics 3: Automating the Learning Pipeline (oral presentation), 2014.
- <u>K. Muandet</u>, **Hilbert Space Embedding for Dirichlet Process Mixtures**. *NIPS 2012 Workshop on confluence between kernel methods and graphical models (oral presentation)*, 2012.

Master Thesis

• K. Muandet. Infinite Independent Subspace Analysis, M.Sc. Thesis, University College London, 2010.

Unpublished Works

• K. Muandet and B. Schölkopf. A Unifying View of Support Measure Machines, Support Vector Machines, and Parzen Window Classifiers.

http://krikamol.org/research/papers/smm-unifying.pdf.

- A. Mehrjou, W. Jitkrittum, <u>K. Muandet</u>, and B. Schölkopf. Kernel-Guided Training of Implicit Generative Models with Stability Guarantees, 2019.
- S. K. Lee, L. Gresele, M. Park, and <u>K. Muandet</u>. **Private Causal Inference via Inverse Probability Weighting**, 2019.

Research Grants and Funding

Grassroots project (No. M10334): 17,000 Euro 2019

RESEARCH TOPIC: Kernel methods meet deep learning

Funding Agency: Max Planck Institute for Intelligent Systems

Research Grant for New Scholar (MRG Grant No. 6080206): 592,000 THB

RESEARCH TOPIC: Counterfactual mean embedding with applications in causal inference

FUNDING AGENCY: The Thailand Research Fund (TRF), Thailand

Research Supplement Grant: 200,000 THB 2016

FUNDING AGENCY: Faculty of Science, Mahidol University, Thailand

Selected Research Projects

DS4: A Discriminative Spatial-Spectral Model for Speckle Suppression

A machine learning software that processes unocculted and highly speckled light in the P1640 spectroscopic coronograph for the purpose of exoplanet detection.

Face-based Image Retrieval System

The system uses a human face as a query for searching and retrieving digital images in large databases. A face detection algorithm is used to detect faces, which are then compared with the query image. A promising similarity measure algorithm is used to compare the human face.

Dicom Viewer Software

This software enable us to read the DICOM images from cone beam CT (i-CAT) and display in axial, coronal, sagittal and panoramic views. The software also shows Cross Section View which is reconstructed as a cross plane image intersecting at a right angle with the panoramic line, relative position of mandibular canal. TMJ view is also another feature for assisting diagnostic of TMJ abnormalities.

Emotion Recognition from Speech

We develop the system that is able to recognise emotions from speech signals. Four types of features are used namely pitch-related, intensity-related, duration-related, and spectral-related features. The feature selection is performed using Principle Component Analysis (PCA). The results of the experiments are then compared among K-nearest neighbour, naive Bayes, and Support Vector Machine.

PACS (Picture Archiving Communication System) for Dentistry

PACS (Picture Archiving Communication System) is a system that manage and transfer information for dental field focusing on 2 main fields as follows. First application was to open Digital Imaging and Communications in Medicine (DICOM) files of patients inside the database via Local Area Network (LAN) and Hypertext Transfer Protocol (HTTP). Second application was to pass patients personal data and treatment data on the network by applying MySQL database.

ULookr: A Simple Search Engine

ULookr is a web-based search engine implemented in PHP. This software demonstrates how search engines work. Important modules of ULookr consists of web crawler, web indexer, and information retrieval modules.

Simulation of Traffic Light Control Using Reinforcement Learning

This research studied the application of reinforcement learning in the traffic light control. The system takes into account the number of cars at each junction and learn the optimal policy to control the traffic light.

Moving Object Detection in Video System

This project used many image processing techniques for detecting the moving objects in video scenes. The result of the system were quite promising. This project was also supported by National Electronics and Computer Technology Centre.

Information Management Application for Dormitory

The student housing management software

Professional Affiliations/Activities

MLRS 2019 - Machine Learning Research School, Co-organizer

with Wittawat Jitkrittum, Seksan Kiatsupaibul, Sarana Nutanong, Supasorn Suwajanakorn, and Ekapol Chuangsuwanich

DALI 2019 - Data, Learning and Inference, Co-chair

with Arthur Gretton and Shakir Mohamed

The NIPS2017 Workshop on Learning on Distributions, Functions, Graphs and

Groups, Co-organizer

Co-located with the 31st Neural Information Processing Systems (NIPS2017)

The Institute of Statistical Mathematics, Foreign Visiting Researcher Invited to visit the Research Center for Statistical Machine Learning

The 9th Asian Conference on Machine Learning (ACML2017), Workshop co-chair

Invited to be one of the organizing committees

Dagstuhl Seminar: "New Directions for Learning with Kernels and Gaussian Pro-

cesses", Invited participant

Participation in the seminar is by invitation only.

Special Seminar: "Unravel the Mystery of AlphaGo, Deep Learning, and the Fu-

ture of Artificial Intelligence", Co-organizer

Including invited speaker, distinguished panelists, and nearly 300 participants

Neural Information Processing Systems (NIPS2016), Program Manager

One of the program managers for NIPS2016 (with Ulrike von Luxburg, Isabelle Guyon, and Behzad Tabibian)

Machine Learning Summer School (MLSS2015), Speaker

I co-taught a practical on kernel methods

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

Machine Learning Summer School (MLSS2013), Student Volunteer

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

Empirical Inference Symposium, Co-organizer

In honor of the 75th birthday of Professor Vladimir V. Vapnik.

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

Machine Learning Journal Club, Participant

GATSBY COMPUTATIONAL NEUROSCIENCE UNIT, UCL

Image Technology Laboratory, Research trainee

TOPIC: Machine learning in computer vision, e.g., face recognition NATIONAL ELECTRONICS AND COMPUTER TECHNOLOGY CENTRE

Research trainee

TOPIC: Medical image processing

ADVANCED DENTAL TECHNOLOGY CENTRE

Bangkok, Thailand

04-11.08.2019

George, South Africa

03-05.01.2019

California, USA

08.12.2017

Tokyo, Japan

03-24.07.2017

Seoul, Korea

15.11.2017 - 17.12.2017

Wadern, Germany

27.11.2016 - 02.12.2016

Bangkok, Thailand

22.03.2016

Barcelona, Spain

2015-2016

Tübingen, Germany

13-24.07.2015

Tübingen, Germany

26.8-06.09.2013

Tübingen, Germany 8-10.12.2011

London, United Kingdom

01.2010 - 10.2010

Pathumthani, Thailand

06.2007 - 06.2009

Pathunthani, Thailand

06.2008 - 06.2009

Teaching/Supervision Experience

Supervised Students

PHD	STUDENTS

Jun Park (ETH/Cambridge)Tübingen, GermanyMAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS04.11.2019-Present

Jonas Kübler (U of Tübingen)

Tübingen, Germany

Co-supervise with Bernhard Schölkopf 01.05.2019-Present

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

MASTER AND UNDERGRADUATE STUDENTS

Purin Klunklar, Weerapatra Charoenkitsupat, Siraporn TonguraiBangkok, ThailandUndergraduate Senior Project, MAHIDOL UNIVERSITY06.2016-05.2017

Chirag Gupta, Undergraduate InternTübingen, GermanyCo-supervise with Ilya Tolstikhin and Bernhard Schölkopf06.2015-08.2015

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

Uzair Akbar, Master, Technical University of Munich (TUM)Tübingen, GermanyMAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS04.2020-12.2020

INTERNSHIP STUDENTS

Korrawe Karunratanakul and Xiaohan ChenTübingen, GermanyCo-supervise with Siyu Tang06.2019-12.2019Grassroots Projects, MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

Prabhu Pradhan, Undergrad, IISc BangaloreTübingen, GermanyMAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS04.2020-11.2020

Taught Courses

MAHIDOL UNIVERSITY, BANGKOK, THAILAND

SCMA446 : MACHINE LEARNING, Undergraduate level2nd Semester/2016SCMA181 : STATISTICS FOR MEDICAL SCIENCE, Undergraduate level2nd Semester/2016

SCMA241 : COMPUTER PROGRAMMING, Undergraduate level1st Semester/2016SCIM301 : NUMERICAL ANALYSIS, Undergraduate level1st Semester/2016SCMA481 : TIME SERIES ANALYSIS, Undergraduate level1st Semester/2016

SCMA115: CALCULUS, *Undergraduate level*Summer Semester/2015

SCMA165 : Ordinary Differential Equation, Undergraduate level2nd Semester/2015SCMA351 : Linear Algebra, Undergraduate level2nd Semester/2015SCMA292 : Math Modelling : Machine Learning, Undergraduate level2nd Semester/2015SCMA695 : Applied Mathematics Seminar 2, Graduate level2nd Semester/2015

Editorial Reviews

CZECH SCIENCE FOUNDATION, Grant Proposal Reviewer	2017
JOURNAL OF MACHINE LEARNING RESEARCH, Peer Reviewer	2015–2020
NEUROCOMPUTING, Peer Reviewer	2014
IEEE Transaction on Information Theory, Peer Reviewer	2017
IEEE Transaction on Knowledge and Data Engineering, Peer Reviewer	2013
IEEE Transaction on Pattern Analysis and Machine Intelligence, Peer Reviewer	2013, 2016
DATA MINING AND KNOWLEDGE DISCOVERY, Peer Reviewer	2013
NEURAL INFORMATION PROCESSING SYSTEMS (NEURIPS), Peer Reviewer	2013 – 2015, 2018
NEURAL INFORMATION PROCESSING SYSTEMS (NEURIPS), Area Chair	2019-2020

INTERNATIONAL CONFERENCE ON MACHINE LEARNING (ICML), Peer Reviewer	2015, 2017
INTERNATIONAL CONFERENCE ON MACHINE LEARNING (ICML), Area Chair	2019
COMPUTATIONAL LEARNING THEORY (COLT), Peer Reviewer	2018
ASIAN CONFERENCE ON MACHINE LEARNING (ACML), Senior Program Committee	2017
INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE (IJCAI), Peer Reviewer	2015
ARTIFICIAL INTELLIGENCE & STATISTICS (AISTATS), Peer Reviewer	2016
INTERNATIONAL CONFERENCE ON LEARNING REPRESENTATION (ICLR), Peer Reviewer	2018
JOURNAL OF CAUSAL INFERENCE, Peer Reviewer	2018

Invited Talks/Presentations

Occam's Razor Seminar

TOPIC: "Statistical Learning Theory"

REGML 2020: Regularization Methods for Machine Learning (virtual)	Genova, Italy
TUTORIAL: "Recent Advances in Hilbert Space Representation of Probability Distributions"	01.07.2020
Workshop on Functional Inference and Machine Intelligence (FIMI), EURECOM TOPIC: "Learning Conditional Moment Restrictions with Kernels"	Sophia Antipolis, France 17-19.02.2020
Graduate School and Research Center in Digital Science, EURECOM TOPIC: "DualIV: A Single Stage Instrumental Variable Regression"	Sophia Antipolis, France 19.11.2019
The Second Korea-Japan Machine Learning Workshop TOPIC: "Counterfactual Policy Evaluation and Optimization in Reproducing Kernel Hilbert Spaces"	Jeju Island, South Korea 22-24.02.2019
"Ola Bratteli" Seminar, Department of Mathematics and Computer Science, Thammasat University	Pathumthani, Thailand
TOPIC: "The Foundation of Machine Learning and Its Applications"	19.10.2017
Facebook Artificial Intelligence Research (FAIR) TOPIC: "Learning with Implicit Representation of Probability Distributions"	New York , USA 09.10.2017
A*STAR Artificial Intelligence Programme (A*AI) TOPIC: "Learning with Implicit Representation of Probability Distributions"	<i>Singapore</i> 27.09.2017
Department of Computer Science, University of Toronto	Toronto , Canada
TOPIC: "Learning with Implicit Representation of Probability Distributions"	14.09.2017
RIKEN Center for Advanced Intelligence Project (AIP) TOPIC: "Counterfactual Mean Embedding with Applications in Nonparametric Causal Inference"	<i>Tokyo, Japan</i> 09.03.2017
Faculty of Commerce and Accountancy, Chulalongkorn University TOPIC: "Causal Inference: A Machine Learning Perspective"	Bangkok, Thailand 17.11.2016
Department of ICT, Mahidol University TOPIC: "Learning from Probability Distributions via Kernel Mean Embeddings"	Bangkok, Thailand 26.08.2016
Department of Computer Science, Thammasat University TOPIC: "Kernel Methods and Applications"	Bangkok, Thailand 28.03.2016
Department of Statistics, University of Oxford TOPIC: "Learning from Probability Distribution via Kernel Mean Embedding"	Oxford, UK 01.12.2015
Center for Cosmology and Particle Physics, New York University TOPIC: "Support Vector Machine, Support Measure Machine, and Quasar Target Selection"	<i>New York, USA</i> 19.12.2012
Astro Imaging Workshop TOPIC: "Support Measure Machine for Quasar Target Selection"	Val Müstair, Switzerland 2012

Tübingen, Germany

2012

Asian Conference on Machine Learning

PAPER: "Query Selection via Weighted Entropy for Graph Based Semi-supervised Classification"

Nanjing, China 2009

The Pacific-Asia Conference on Knowledge Discovery and Data Mining,

PAPER: "Robust Graph Hyperparameter Learning for Graph Based Semi-supervised Classification"

Bangkok, Thailand

National Science and Technology Development Agency

TOPIC: "Robust Graph Hyperparameter Learning for Graph Based Semi-supervised Classification"

2009

Gatsby Computational Neuroscience Unit, UCL,

TOPIC: "Research interest in machine learning"

London, United Kingdom 2009

Pathumthani, Thailand

Bone and Dental Technology Symposium

PAPER: "Development of dental software: Introducing ADTEC dicom viewer"

Bangkok, Thailand 2007

Awards and Honours

NIPS2015 Best Reviewer Award, Neural Information Processing Systems Foundation	2015
NIPS2014 Travel Award, Neural Information Processing Systems Foundation	2014
NIPS2012 Travel Award, Neural Information Processing Systems Foundation	2012
Machine Learning Summer School Scholarship, MLSS2011 Singapore	2011
	2008
SCG Talent Scholarship, The Siam Cement Foundation	
Academic Excellence Award (Gold medal), SIIT, Thammasat University	2008
Academic Excellence Award, SIIT, Thammasat University	2005 - 2007
Academic Excellence Award, Thammasat University	2006 - 2007
Fundamental Information Technology Engineer Examination, Information Tech-	2007
nology Professional Council	
Academic Excellence Award, Professor Dr. Tab Nilanidhi Foundation	2006
Young Scientist e-Passport, the Ministry of Science and Technology	2006
The 2nd prize in Young Scientist Competition in Computer Science and Engineer-	2005
ing Projects, National Electronics and Computer Technology Centre	
Research Funding for Computer Science Project, National Electronics and Com-	2003
puter Technology Centre	
The 3rd Student in Honor Roll, Mahidol Wittayanusorn School	2003
The 1st Student in Honor Roll, Princess Chulabhorn's College, Satun	2002
Information Technology Associate Exam(ITAE), National Electronics and Computer	2002
Technology Centre	

Computer and Programming Skills

Operating Systems UNIX, LINUX, OSX, WINDOW 98/XP/VISTA

Programming Python, R, C/C++, Java, LaTex, Php, Unix shell, SQL Tools Weka, Scilab, Octave, Matlab, Jupyter Notebook

Libraries OpenCV, GTK/GTKMM, TensorFlow

Languages

THAI: Fluent - First Language, ENGLISH: Fluent, GERMAN: Beginner