PEILUN DAI

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EDUCATION

Boston University PhD Candidate in Computer Science	9/2018 - present Boston, MA, US
Massachusetts Institute of Technology	9/2015 - 9/2018 Cambridge, MA, US
Nanyang Technological University Bachelor of Engineering (1st Class Hons) in Electrical and Electronic Engineering	9/2010 - 5/2014
WORK EXPERIENCE	
Boston University Teaching/Research Fellow, Graduate School of Arts & Sciences Teaching undergraduate course in data structures using Java, and graduate course compressed sensing and game theory	2/2019 - Present Boston, MA, Us s in machine learning
MIT Media Lab Graduate Research Assistant, Synthetic Neurobiology Group Optical connectomics theory, zebrafish behavior	9/2016 - 9/2018 Cambridge, MA, U.
Institute for Infocomm Research Research Engineer	8/2014 - 7/2015 Singapore
INTERNSHIPS AND SHORT-TERM VISITS	
Singapore University of Technology and Design Research Assistant	5/2019 - 7/2019 Singapore
Advanced Digital Sciences Center Research Internship	5/2013 - $8/2013Singapore$
Panasonic R&D Center Singapore Industrial Attachment Program	9/2012 - 12/2012 Singapore
Singapore-MIT Alliance for Research and Technology Undergraduate Research Fellowship Program	5/2011 - $8/2011Singapore$
TRAINING	
Gaussian Process and Uncertainty Quantification Summer School 2020	9/2020
2020 Intelligent Sensing Summer School	9/2020
2020 Telluride Neuromorphic Workshop	8/2020
AI Summer School 2020 by AI Singapore	8/2020
2020 International Conference on Mathematical Neuroscience	7/2020
MIT Brain, Minds and Machines Summer Course, Woods Hole, MA,	USA 8/2015
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IEEE SPS Winter School on Visual Image Search and Visual Analytics, Singapore 12/2014

HONORS AND AWARDS

Dean's Fellowship, Graduate School of Arts and Sciences, Boston University 2018-2019

National Science Scholarship, Agency for Science, Technology and Research, Singapore 2015

SM3 Scholarship for Undergraduate Study in Singapore, Ministry of Education, Singapore 2010

VOLUNTEERING AND SERVICES

The Thirty-Seventh International Conference on Machine Learning (ICML) $Volunteer$	$7/2020\\Online$
The Eighth International Conference on Learning Representations (ICLR) $Volunteer$	4/2020 Online

TEACHING

CS 542 Machine Learning Teaching Fellow	Summer 2021 Boston, MA, US
CS 655 Computer Networking Grader	Fall 2020 Boston, MA, US
CS 542 Machine Learning Teaching Fellow	Summer 2020 Boston, MA, US
CS 112 Introduction to Computer Science II Teaching Fellow	Spring 2020 Boston, MA, US
CS 591 C1 Computational Game Theory $Grader$	Spring 2020 Boston, MA, US
CS 112 Introduction to Computer Science II Teaching Fellow	Fall 2019 Boston, MA, US
CS 591 C1 Compressed Sensing and Sparse Recovery $Grader$	Fall 2019 Boston, MA, US
CS 542 Machine Learning Teaching Fellow and Grader	Spring 2019 Boston, MA, US
9.012 Cognitive Science Teaching Assistant	Fall 2017 $Cambridge, MA, US$
9.40 Introduction to Neural Computation Teaching Assistant	Spring 2017 Cambridge, MA, US

PUBLICATIONS

- [1] Young-Gyu Yoon, Zeguan Wang, Nikita Pak, Demian Park, Peilun Dai, Jeong Seuk Kang, Ho-Jun Suk, Panagiotis Symvoulidis, Burcu Guner-Ataman, Kai Wang, and Edward S. Boyden. Sparse decomposition light-field microscopy for high speed imaging of neuronal activity. *Optica*, 7(10):1457–1468, Oct 2020.
- [2] Young-Gyu Yoon, Peilun Dai, Jeremy Wohlwend, Jae-Byum Chang, Adam H Marblestone, and Edward S Boyden. Feasibility of 3d reconstruction of neural morphology using expansion microscopy and barcode-guided agglomeration. *Frontiers in computational neuroscience*, 11:97, 2017.

- [3] Keng-Teck Ma, Liyuan Li, Peilun Dai, Joo-Hwee Lim, Chengyao Shen, and Qi Zhao. Multi-layer linear model for top-down modulation of visual attention in natural egocentric vision. In *Image Processing (ICIP)*, 2017 IEEE International Conference on, pages 3470–3474. IEEE, 2017.
- [4] Bappaditya Mandal, Rosary Yuting Lim, Peilun Dai, Mona Ragab Sayed, Liyuan Li, and Joo Hwee Lim. Trends in machine and human face recognition. In *Advances in Face Detection and Facial Image Analysis*, pages 145–187. Springer, Cham, 2016.