

Peilun Dai

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EDUCATION

Boston University <i>PhD Candidate in Computer Science</i>	9/2018 - present <i>Boston, MA, US</i>
Massachusetts Institute of Technology <i>Master of Science in Brain and Cognitive Sciences</i>	9/2015 - 9/2018 <i>Cambridge, MA, US</i>
Nanyang Technological University <i>Bachelor of Engineering (1st Class Hons) in Electrical and Electronic Engineering</i>	9/2010 - 5/2014 <i>Singapore</i>

WORK EXPERIENCE

Boston University <i>Teaching/Research Fellow, Graduate School of Arts & Sciences</i>	2/2019 - Present <i>Boston, MA, US</i>
MIT Media Lab <i>Graduate Research Assistant, Synthetic Neurobiology Group</i>	9/2016 - 9/2018 <i>Cambridge, MA, US</i>
Institute for Infocomm Research <i>Research Engineer</i>	8/2014 - 7/2015 <i>Singapore</i>

INTERNSHIPS AND SHORT-TERM VISITS

Singapore University of Technology and Design <i>Research Assistant</i>	5/2019 - 7/2019 <i>Singapore</i>
Advanced Digital Sciences Center <i>Research Internship</i>	5/2013 - 8/2013 <i>Singapore</i>
Panasonic R&D Center Singapore <i>Industrial Attachment Program</i>	9/2012 - 12/2012 <i>Singapore</i>
Singapore-MIT Alliance for Research and Technology <i>Undergraduate Research Fellowship Program</i>	5/2011 - 8/2011 <i>Singapore</i>

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
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
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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 24th International Conference on Artificial Intelligence and Statistics <i>Volunteer</i>	4/2021 <i>Online</i>
The 37th International Conference on Machine Learning (ICML) <i>Volunteer</i>	7/2020 <i>Online</i>
The 8th International Conference on Learning Representations (ICLR) <i>Volunteer</i>	4/2020 <i>Online</i>

TEACHING

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

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.