Chao Wang

Department of Statistics and Data Science, Southern University of Science and Technology, Shenzhen 518055, P.R. China Tel: +86 (0755) 8801-1671

Email: wangc6@sustech.edu.cn; chaowang.hk@gmail.com

Website: https://wangcmath.github.io

Employment & Experience

arXiv:2308.04125

Southern University of Science and Technology	Guangdong, China
☐ Assistant Professor at Dept. Statistic & Data Science	Sep. 2021 - Present
University of California, Davis	California, USA
Postdoctoral Researcher at TETRAPODS Institute of Data Science	Jul. 2020 - Present
Advisors: Prof. Chen-Nee Chuah & Prof. Nina Amenta	7411 2020 T TeSeri
University of Texas (UT) Southwestern Medical Center & UT Dallas	Texas, USA
Postdoctoral Researcher at Medical Artificial Intelligence and Automation	·
Advisors: Prof. Xun Jia & Prof. Yifei Lou	
Education	
The Chinese University of Hong Kong	Hong Kong
□ Ph.D. in Mathematics (GPA: 3.92/4.00)	2015 - 2018
Advisor: Prof. Raymond H. Chan	
Dissertation: Sparse Recovery Algorithms for 3D Imaging Using Point Spr	
Shantou University	Shantou, China
 M.Sc. in Applied Mathematics (GPA: 3.84/4.00) Advisor: Prof. Fu-Rong Lin 	2012 - 2015
Thesis: Research on Regularization Parameter Selection Methods in Inve	rse Problems
Hanshan Normal University	Chaozhou, China
□ B.Sc. in Mathematics (GPA: 3.78/4.00)	2008 - 2012
Research Interests	
Scientific Computing, Image Processing, Interdisciplinary Mathematical Mode Convex and Nonconvex Optimization, Hyperspectral Imaging, Tensor Con Numerical Linear Algebra	<u> </u>
Research Grants	
Investigator, NSFC	2023-2025
☐ The Study of Point Spread Function-based Deep Learning Models and Algorit Point Source Localization	:hms for Three-dimensional
Co-Investigator, Shenzhen Fundamental Research Program	2023-2026
☐ Algorithms Study on Early Diagnosis Systems for Neurodegenerative Disease	!
Co-Investigator, HKRGC Grant	2021 - 2023
☐ Novel Computational Methods for 3D Point Source Localization based on Point Publications	nt Spread Function Analytics
Preprint (* indicates corresponding author, # indicates co-first author)	

GB. Rehm, C. Wang, I. Cortes-Puch, CN. Chuah, J. Adams. "Deep Learning-Based Detection of the Acute Respiratory Distress Syndrome: What Are the Models Learning? "arXiv preprint arXiv:2109.12323
 C. Wang*, M. Yan, J. Yu. "Sorted L1/L2 Minimization for Sparse Signal Recovery" arXiv preprint

- [3] **C. Wang,** JF. Aujol, G. Gilboa, Y. Lou.* "Minimizing quotient regularization model" arXiv preprint arXiv:2308.04095
- [4] J. Zhang, L. Zhu, **C. Wang**, S. Li*. "Hyperspectral image fusion via logarithmic low-rank tensor ring decomposition". arXiv preprint arXiv:2310.10044

Accepted/ Published

- [5] T. Wang, X. Wu, J. Li*, **C. Wang***. "Robust retrieval of material chemical states in X-ray microspectroscopy". Optics Express,31(25), 42524-42538,2023.
- [6] L. Dai, M. Lu, C. Wang*, S. Prasad, R. Chan*. "LocNet: Deep Learning-based Localization on Rotating Point Spread Function with Applications to Telescope Imaging". Optics Express, 31(24), 39341-39355, 2023.
- [7] J. Zhang, J. Lu, **C. Wang**, S. Li*. "Hyperspectral and multispectral image fusion via superpixel-based weighted nuclear norm minimization". *IEEE Transactions on Geoscience and Remote Sensing*. 5521612.
- [8] J. Yang, M. Ma, J. Zhang, **C. Wang***. "Noise removal using an adaptive Euler's elastica-based model." *the Visual Computing*. 1-12. 2022
- [9] Z. Lai, **C. Wang#**, H. Gunawan, SC. Cheung, CN. Chuah. "Smoothed adaptive weighting for imbalanced semi-supervised learning: improve reliability against unknown distribution." *The International Conference on Machine Learning (ICML)*. 2022.
- [10] D. Sprouts, Y. Gao, C. Wang, X. Jia, C. Shen, Y. Chi "The development of a deep reinforcement learning network for dose-volume-constrained treatment planning in prostate cancer intensity modulated radiotherapy" *Biomedical Physics & Engineering Express*. 8 (4), 045008, 2022. https://doi.org/10.1088/2057-1976/ac6d82
- [11] Z. Lai, **C. Wang#**, SC. Cheung, CN. Chuah. "SaR: Self-adaptive refinement on pseudo labels for multiclass-imbalanced semi-supervised learning" *The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) workshop*, pp. 4091-4100, 2022.
- [12] **C. Wang**, M. Tao, CN. Chuah, J. Nagy, and Y. Lou*. "Minimizing L_1 over L_2 norms on the gradient." *Inverse Problems*. 39 065011, 2022.
- [13] **C. Wang**, H. Jung, M. Yang, C. Shen, X. Jia*, "Simultaneous image reconstruction and element decomposition for iodine contrast agent visualization in multi-energy element-resolved cone beam CT", Frontiers in Oncology, 113, 2022.
- [14] Z. Lai*, **C. Wang**#, L. Oliveira, B. Dugger, SC. Cheung, CN. Chuah, "Joint semi-supervised and active learning for segmentation of gigapixel pathology images with cost-effective labeling," *Proceedings* of the IEEE/CVF International Conference on Computer Vision, 591-600, 2021.
- [15] Z. Lai, **C. Wang**, Z. Hu, B. Dugger, SC. Cheung, CN. Chuah*, "A semi-supervised learning for segmentation of gigapixel histopathology images from brain tissues", accepted by International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC).
- [16] **C. Wang***, M. Tao, J. Nagy, and Y. Lou. "Limited-angle CT reconstruction via the L_1/L_2 minimization." SIAM Journal on Imaging Sciences. 14(2), 749–777, 2021.
- [17] **C. Wang**, Y. Gonzalez, C. Shen, B. Hrycushko, and X. Jia*. "Simultaneous needle catheter selection and dwell time optimization for Preplanning of HDR Brachytherapy of Prostate Cancer", *Physics in Medicine & Biology*, (66), 055028, 2021.
- [18] **C. Wang**, M. Yan, and Y. Lou*. "Accelerated schemes for the L_1/L_2 minimization." *IEEE Transaction on Signal Processing*, 68, 2660 2669, 2020.

- [19] **C. Wang**, Y. Gonzalez, C. Shen, and X. Jia* "Simultaneous needle selection and dwell time optimization in prostate cancer high-dose-rate brachytherapy." *Medical Physics* 47 (6), E367-E367, 2020.
- [20] Y. Huang, Y. Zhong, **C. Wang**, Y. Gonzalez, C. Shen, and X. Jia*. "Comprehensive calibration and evaluation of a cone-beam CT on a pre-clinical small animal radiation research platform", *Medical Physics* 47 (6), E731-E731, 2020.
- [21] Y. Rahimi, **C. Wang***, H. Dong, and Y. Lou. "A scale invariant approach for sparse signal recovery." *SIAM Journal on Scientific Computing*, 41(6), A3649–A3672, 2019.
- [22] **C. Wang***, G. Ballad, R.J. Plemmons, and S. Prasad "Joint 3D localization and classification of space debris using a multispectral rotating point spread function." *Applied Optics*, 58, 8598-8611, 2019.
- [23] **C. Wang***, R.H. Chan, M. Nikolova, R.J. Plemmons, and S. Prasad. "Non-convex optimization for 3-dimensional point source localization using a rotating point spread function." *SIAM Journal on Imaging Sciences*, 12(1):259–286, 2019.
- [24] **C. Wang***, R.J. Plemmons, S. Prasad, R.H. Chan, and M. Nikolova. "Novel sparse recovery algorithms for 3D debris localization using rotating point spread function imagery." In *Proc. 2018 AMOS Technical Conference*, Maui, HI. 2018.
- [25] **C. Wang***, R.H. Chan, R.J. Plemmons, and S. Prasad, "Point spread function engineering for 3D imaging using a continuous exact L_0 penalty (CEL0) based algorithm." *International Workshop On Image Processing and Inverse Problems*. 1-12, 2018.
- [26] X. Fang, F. Lin, and **C. Wang***. "Estimation of a regularization parameter for a robin inverse problem." *East Asian Journal on Applied Mathematics*, 7(2) 325-342, 2017.

Honors & Awards

HOHOTS & AWARDS				
□ SIAM Early Career Travel Grant Award	2020			
2020 SIAM Conference on Imaging Science (IS20)				
SIAM Student Travel Grant Award	2018			
2018 SIAM Conference on Imaging Science (IS18)				
□ SIAM Student Chapter Certificate of Recognition	2018			
☐ Best Poster Presentation Award	2017			
4th AoE Symposium on Organelle Biogenesis and Function				
☐ Best Student Paper Award	2017			
Annual Meeting of China Society for Industrial and Applied Mathematics				
☐ CUHK Postgraduate Studentship	2015 - 2018			
☐ Second Prize of the National Post-Graduate Mathematic Contest in Modeling	2013			
 Outstanding Graduate Student Award at Shantou University 	2013			
☐ Second Prize of the National Mathematics Contest, Guangdong Division (Rank 16t	h) 2011			
□ National Endeavor Scholarship	2009 - 2010			
Teaching				
Southern University of Science and Technology	Shenzhen, China			
☐ Instructor, Department of Statistics and Data Science	2022 – Present			

MATH4230 Optimization Theory, Spring 2018 MATH3215A Operations Research, Fall 2017

Teaching Assistant, Department of Mathematics

The Chinese University of Hong Kong

STA201 Operational Research and Optimization, 2022- Present
 STA5013 Statistical & Mathematical Image Processing, Fall 2023

Hong Kong

2015 - 2018

 MATH2221 Mathematical Laboratory, Spring 2017 MATH3215 Operations Research, Spring 2017 MATH2010 Advanced Calculus I, Spring 2016 MATH3210 Linear Programming, Fall 2015 					
Shantou University	Shantou, China				
 ☐ Teaching Assistant, Department of Mathematics ☐ MAT1002B Linear Algebra and Analytic Geometry, Fall 201 	2013				
Professional Activities					
Co-Editor	2023				
Special Issue: Multiple Sensors Fusion for Image Recogn	ition				
Journal: Sensors					
Referee Service	2019 - Present				
☐ SIAM Journal on Imaging Sciences	☐ Research in the Mathematical Sciences (RMSB)				
☐ IEEE Transactions on Signal Processing	□ Calcolo				
☐ IEEE Transactions on Geoscience and Remote	□ CVPR				
Sensing (TGRS)	☐ Infrared Physics and Technology				
Optics Express	Advances in Computational Mathematics				
□ IEEE Internet of Things Journal	Frontiers				
☐ Inverse Problems and Imaging (IPI)	Computational and Applied Mathematics				
TEST, Springer	Signal Processing				
Journal of Mathematical Imaging and Vision	☐ Journal of Computational and Applied				
□ Journal of Scientific Computing (JSC)□ Journal of Microscopy	Mathematics Journal of Nonlinear and Variational Analysis				
□ Journal of Microscopy□ Machine Learning	☐ Journal of Nonlinear and Variational Analysis				
Conference Organization					
☐ Min-symposium in International Congress on Industr	rial and Applied Mathematics (ICIAM) Aug. 2023				
☐ Min-symposium in 2022 SIAM Conference on Imagin					
☐ Al & Biomedical Imaging Workshop at UC Davis, onli	,				
Mentorship (Ph.D. /MPhil /RA student project advisor)					
PhD students:	2010 11636116				
☐ Yunshan Li (SUSTech, Sept. 2023 - Present)					
☐ Ting Wang (SUSTech, Sept. 2022 - Present)					
☐ Huiwen Zheng (SUSTech, May 2022 - Present)					
☐ Yaghoub Rahimi (UT Dallas, Oct. 2018 - Jun. 2019)					
☐ Mujibur Chowdhury (UT Dallas, Oct. 2020 – Oct. 202	1)				
□ Zhengfeng Lai (UC Davis, July. 2020 - July. 2022)					
☐ Gregory Rehm (UC Davis, Jan. 2021 – Jul. 2021)					
MPhil students:	MPhil students:				
☐ Zitian Ao (SUSTech, Sept. 2023 - Present)					
☐ Xiaotong Wu (SUSTech, Sept. 2022 - Present)					
☐ Junjie Yu (SUSTech, Sept. 2021 - Jun. 2023)					

□ Vishal Bhuvaneswari (UC Davis, Jan. 2021 – Jan. 2022)

RAs:			
☐ Heyu Huang (SUSTech, May 2021 - Jan. 2022)			
☐ Shengjie Niu (SUSTech, Apr. 2021 - Present)			
Undergraduate Students:			
Simin Du, Jinsong Zhou, Yulun Wu,			
Member of Shenzhen Health Economy Academy Health Statistic Committee	2021 - 2026		
Student Chapter Representative	Jul. 2017		
□ SIAM Chapter Meeting with SIAM Leadership at SIAM Annual Meeting in Pittsburgh, PA, USA			
Research Exchange & Visiting			
☐ Research Associate Aug Sep. 2018 &	lun - lul 2017		
□ Department of Computer Science Wake Forest University, USA	Juli. Jul. 2017		
Advisor: Prof. Robert Plemmons			
☐ Research Assistant	Jun. 2015		
☐ Department of Mathematics at CUHK, Hong Kong			
Advisor: Professor Raymond H. Chan			
☐ Visiting Scholar	2013 - 2018		
☐ University of Bologna, Bologna, Italy (May - Jun. 2018)			
☐ Berlin Mathematical Society, Berlin, Germany (Jul Aug. 2016)			
☐ The Chinese Academy of Sciences, Beijing, China (Jul Aug. 2013)			
Treasurer	2017-2018		
☐ Student Chapter of SIAM, The Chinese University of Hong Kong			
Student Chapter of SIAM, The Chinese University of Hong KongPresentations			
	Oct. 2023		
Presentations	Oct. 2023 Aug. 2023		
Presentations ☐ Invited Talk, CSIAM Annual Meeting, Kuiming ☐ International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo ☐ Invited Talk, Jiangxi Normal University, Nanchang,			
Presentations ☐ Invited Talk, CSIAM Annual Meeting, Kuiming ☐ International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo ☐ Invited Talk, Jiangxi Normal University, Nanchang, ☐ Invited Talk, Nanchang Insitute of Technology, Nanchang	Aug. 2023 May 2023 May 2023		
Presentations ☐ Invited Talk, CSIAM Annual Meeting, Kuiming ☐ International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo ☐ Invited Talk, Jiangxi Normal University, Nanchang, ☐ Invited Talk, Nanchang Insitute of Technology, Nanchang ☐ Invited Talk, International Conference on Image Processing and Artificial Intelligence, Online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022		
Presentations ☐ Invited Talk, CSIAM Annual Meeting, Kuiming ☐ International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo ☐ Invited Talk, Jiangxi Normal University, Nanchang, ☐ Invited Talk, Nanchang Insitute of Technology, Nanchang ☐ Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli ☐ Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022		
Presentations ☐ Invited Talk, CSIAM Annual Meeting, Kuiming ☐ International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo ☐ Invited Talk, Jiangxi Normal University, Nanchang, ☐ Invited Talk, Nanchang Insitute of Technology, Nanchang ☐ Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli ☐ Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech ☐ Invited Talk, CSIAM Annual Meeting, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online Invited Talk, Shenzhen Institute of Advanced Technology, Chinese Academy of Science	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022 Sept. 2021		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online Invited Talk, Shenzhen Institute of Advanced Technology, Chinese Academy of Science Invited Talk, Frontiers in Biomedical Imaging Seminar Series, UCD BME, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022 Sept. 2021 Nov. 2020		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online Invited Talk, Shenzhen Institute of Advanced Technology, Chinese Academy of Science Invited Talk, Frontiers in Biomedical Imaging Seminar Series, UCD BME, online Invited Talk, Machine Learning Working Group, UCD Health, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022 Sept. 2021 Nov. 2020 Oct. 2020		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onlia Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online Invited Talk, Shenzhen Institute of Advanced Technology, Chinese Academy of Science Invited Talk, Frontiers in Biomedical Imaging Seminar Series, UCD BME, online Invited Talk, Machine Learning Working Group, UCD Health, online Invited Talk, Mathematics of Data and Decisions at Davis, UCD Math, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022 Sept. 2021 Nov. 2020 Oct. 2020		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online Invited Talk, Shenzhen Institute of Advanced Technology, Chinese Academy of Science Invited Talk, Frontiers in Biomedical Imaging Seminar Series, UCD BME, online Invited Talk, Machine Learning Working Group, UCD Health, online Invited Talk, Mathematics of Data and Decisions at Davis, UCD Math, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022 Sept. 2021 Nov. 2020 Oct. 2020		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onli Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online Invited Talk, Shenzhen Institute of Advanced Technology, Chinese Academy of Science Invited Talk, Frontiers in Biomedical Imaging Seminar Series, UCD BME, online Invited Talk, Machine Learning Working Group, UCD Health, online Invited Talk, Mathematics of Data and Decisions at Davis, UCD Math, online Joint AAPM & COMP Virtual Meeting, online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022 Sept. 2021 Nov. 2020 Oct. 2020 Jul. 2020		
Presentations Invited Talk, CSIAM Annual Meeting, Kuiming International Congress on Industrial and Applied Mathematics (ICIAM2023), Tokyo Invited Talk, Jiangxi Normal University, Nanchang, Invited Talk, Nanchang Insitute of Technology, Nanchang Invited Talk, International Conference on Image Processing and Artificial Intelligence, Onlia Invited Talk, International Conference on Frontier of Statistics & Data Science, SUSTech Invited Talk, CSIAM Annual Meeting, online Invited Talk, Nanjing University, online Al for Medical Imaging Workshop, Zhejiang Normal University, online SIAM Conference on Image Science (IS22), online Invited Talk, Shenzhen Institute of Advanced Technology, Chinese Academy of Science Invited Talk, Frontiers in Biomedical Imaging Seminar Series, UCD BME, online Invited Talk, Machine Learning Working Group, UCD Health, online Invited Talk, Mathematics of Data and Decisions at Davis, UCD Math, online Joint AAPM & COMP Virtual Meeting, online SIAM Conference on Image Science (IS20), online	Aug. 2023 May 2023 May 2023 ne, Dec. 2022 Dec. 2022 Nov. 2022 Jun. 2022 May 2022 Mar. 2022 Sept. 2021 Nov. 2020 Oct. 2020 Oct. 2020 Jul. 2020 Jul. 2020		

	Advanced Maui Optical and Space (AMOS) Surveillance Technologies Conference, HI, USA	Sep. 2018			
	Invited Talk, Wake Forest University, NC, USA	Aug. 2018			
	Invited Talk, Shantou University, Shantou, China	Jul. 2018			
	SIAM Conference on Image Science (IS18), Bologna, Italy	Jun. 2018			
	SIAM Conference on Applied Linear Algebra (ALA18), HKBU, HK	May 2018			
	International Workshop on Image Processing and Inverse Problems, CSRC, Beijing, China	Apr. 2018			
	4 th AoE Symposium on Organelle Biogenesis and Function, CUHK, Hong Kong	Dec. 2017			
	International Conf. & AoE Symposium on Organelle Biogenesis and Function, CUHK, HK	Sep. 2017			
	15 th Annual Meeting of China SIAM, Qingdao, China	Oct. 2017			
	2017 Imaging Science Camp at SUST, Shenzhen, China	Mar. 2017			
	East Asian Section of SIAM Conference (EASIAM), Macau	Jun. 2016			
	2014 Imaging Science Camp at SYSU, Guangzhou, China	May 2014			
Skills					
Programming:					
	☐ MATLAB (Proficient), Python (Competent), Mathematica (Competent), C/C++ (Competent)				
Software/API:					
☐ TensorFlow, Keras, MS Office, LaTeX					
Language:					
	☐ English (Fluent), Cantonese Chinese (Native), Mandarin Chinese (Fluent), Teochew Chinese (Native)				

Last updated on 2023-9-10