

CURRICULUM VITAE: TAT-JUN CHIN

Personal details

Citizenship Australian.
Place of birth Penang, Malaysia.

Education

2007 Ph.D. Monash University.
2003 B.Eng. (Hons) Universiti Teknologi Malaysia.

Career

Since 2020 SmartSat CRC Professorial Chair of Sentient Satellites, The University of Adelaide.
Since 2020 Member, Space Situational Awareness Technical Advisory Group, Australian Space Agency.
Since 2020 Advisory Board Member, Australian Space Data Analytics Facility (ASDAF).
Since 2019 Technical Advisor, AIOZ Pty Ltd.
Since 2018 Director, Machine Learning for Space, Australian Institute for Machine Learning (AIML).
2017–2020 Chief Investigator, Australian Centre for Robotic Vision (ACRV).
2017–2020 Associate Professor, School of Computer Science, The University of Adelaide.
2014–2016 Senior Lecturer, School of Computer Science, The University of Adelaide.
2010–2013 Lecturer, School of Computer Science, The University of Adelaide.
2008–2010 Senior Research Associate, School of Computer Science, The University of Adelaide.
2007–2008 Research Fellow, CVIU Department, Institute for Infocomm Research, Singapore.
2003–2004 Test Development Engineer, Sensor Solutions Division, Agilent Technologies, Malaysia.

Honours and awards

2020 Finalist, Academic of the Year, Australian Space Awards 2020.
2019 Best Paper Award Finalist, CVPR 2019 Workshop on Event Vision and Smart Cameras.
2019 IAPR/IPRS Best Paper Award, DICTA 2019.
2019 Winner, Kelvins Pose Estimation Challenge, European Space Agency.
2018 Best of ECCV 2018.
2018 Best Science Paper, BMVC 2018.
2017 DSTG Award, DICTA 2017.
2015 Best Paper (Honourable Mention), CVPR 2015.
2015 DSTO Award for Fundamental Contribution to Image Processing, DICTA 2015.
2004 Endeavour Australia-Asia Award, Commonwealth of Australia.
2003 Vice Chancellor's Award, Universiti Teknologi Malaysia.
2001 Agilent Technologies Undergraduate Scholarship, Agilent Technologies.

Research funding

2021–2023	M. Wagner, T.-J. Chin, I. D. Reid, S. Gupta and C. Guettier, "Collaborative Sensing and Learning for Maritime Situational Awareness", ARC Linkage Project.	AU\$643,565
2020–2025	T.-J. Chin. "Professorial Chair of Sentient Satellites", SmartSat CRC.	AU\$1,500,000
2020–2022	T.-J. Chin, M. Tetlow, A. Eriksson and R. Mahony, "Ultra-fine Attitude Control via Event-based Star Tracking and Piezoelectric Stabilisation", SmartSat CRC Project.	AU\$600,000
2020–2022	T.-J. Chin, "New Paradigms for Robust Fitting: Kernelisation and Polyhedral Search", ARC Discovery Project.	AU\$370,000
2020–2023	I. D. Reid, T.-J. Chin and G. Carneiro, "Trusted Autonomous Ground Vehicle injected in an EW application (TAGVIEW): Research Stream 1: Semantic understanding with inference and reasoning", Trusted Autonomy Systems - Defence CRC project.	AU\$2,894,350
2020	T.-J. Chin and Michael Webb, "Event-based Star Tracking for Celestial Navigation in Daylight", White Paper for Future Submarine Program - Combat System Integrator R&D Program, Lockheed Martin Australia.	AU\$70,000
2018–2019	T.-J. Chin, J. Worrall, and K. Fukui, "Visual markers for UAV-based facade inspection", Mawson Lakes Fellowship Program.	AU\$20,000
2016–2018	T.-J. Chin, D. Suter, and M. Tetlow, "Space-based space surveillance with robust computer vision algorithms", ARC Linkage Project.	AU\$275,000
2016–2018	T.-J. Chin, and D. Suter, "Optimal robust fitting under the framework of LP-type methods", ARC Discovery Project.	AU\$268,000

2016	T.-J. Chin, "Quantifying performance of image processing for optical space situational awareness data", DSTG Research Agreement.	AU\$24,200
2016	T.-J. Chin, "Guaranteed outlier removal for point cloud registration", DSTG Research Agreement.	AU\$15,000
2014–2016	I. D. Reid, T.-J. Chin, and J. Howarth, "Visual sensing for localisation and mapping in mining", ARC Linkage Project.	AU\$220,000
2014–2020	Chief Investigator, "ARC Centre of Excellence for Robotic Vision".	AU\$25.6M
2013–2015	D. Suter, T.-J. Chin, A. Bab-Hadiashar, and P. Chen, "Improved image analysis: maximised statistical use of geometry/shape constraints", ARC Discovery Project.	AU\$330,000
2012–2013	G. Carneiro and T.-J. Chin, "Automated reasoning under uncertainty for visual object recognition and classification", Regione Puglia - South Australia Awards for Research Collaboration.	AU\$70,000

Professional activities

2023	Special Sessions Chair, International Conference on Image Processing (ICIP), 2023.
2022	Program Chair, Asian Conference on Computer Vision (ACCV), 2022.
2021	Area Chair, IEEE Conf on Computer Vision (ICCV), 2021.
2021	Tutorial Chair, IEEE Conf on Computer Vision and Pattern Recognition (CVPR), 2021.
2021	Area Chair, IEEE Conf on Computer Vision and Pattern Recognition (CVPR), 2021.
2020	Area Chair, Asian Conference on Computer Vision (ACCV), 2020.
2019	Area Chair, IEEE Winter Conf. on Applications of Computer Vision (WACV), 2019.
Since 2018	Associate Editor, MDPI Journal of Imaging.
2018	Tutorial Chair and Area Chair, Asian Conference on Computer Vision (ACCV), 2018.
2018	Area Chair, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.
2017	Area Chair, International Conference on 3D Vision (3DV), 2017.
2016	Area Chair, International Conference on 3D Vision (3DV), 2016.
Since 2014	Associate Editor, IPSJ Transactions on Computer Vision and Applications (CVA).
2014	Area Chair, Asian Conference on Computer Vision (ACCV), 2014.
2013	Finance Chair, International Conference on Image Processing (ICIP), 2013.

ARC assessor, program committee member for major computer vision conferences (CVPR, ICCV, ECCV, ACCV), reviewer for top computer vision journals (TPAMI, IJCV, TIP, TMI, IVC).

Awards won by advisees

2020	Computer Science Innovation Award at Ingenuity 2020 (Sofia Mcleod).
2020	Dean's Commendation for Doctoral Thesis Excellence (Zhipeng Cai).
2019	Computer Science Innovation Award at Ingenuity 2019 (Ryan Faulkner).
2016	Dean's Commendation for Doctoral Thesis Excellence (Álvaro Parra Bustos).
2015	Google Award for Best Honours Thesis (Marcus Low)
2014	Dean's Commendation for Doctoral Thesis Excellence (Guosheng Lin).
2014	Google Ph.D. Fellowship (Guosheng Lin).
2014	Dean's Commendation for Doctoral Thesis Excellence (Quoc Huy Tran).
2014	Dean's Commendation for Doctoral Thesis Excellence (Trung Thanh Pham).
2013	Invitation to Heidelberg Laureate Forum (Trung Thanh Pham).
2013	Google Award for Best Honours Thesis (William X. Liu)
2012	Google Ph.D. Fellowship (Trung T. Pham).

Teaching

- Year 4: Quantum Computing, Advanced Algorithms, Computer Vision, Geometric Algorithms.
- Year 3: Artificial Intelligence.
- Year 2: Systems Programming, Algorithm Design and Data Structures, Data Structures and Algorithms.
- Year 1: Scientific Computing, Object Oriented Programming, Introduction to Software Engineering.

REFEREES: TAT-JUN CHIN

- Professor Ian Reid
School of Computer Science,
The University of Adelaide.
Email: ian.reid@adelaide.edu.au
WWW: <http://cs.adelaide.edu.au/~ianr/>
- Professor Robert Mahony
Research School of Electrical, Energy and Materials Engineering,
College of Engineering and Computer Science,
The Australian National University.
Email: robert.mahony@anu.edu.au
WWW: <https://cecs.anu.edu.au/people/robert-mahony>
- Professor Fredrik Kahl
Department of Electrical Engineering,
Chalmers University of Technology.
Email: fredrik.kahl@chalmers.se
WWW1: <http://www.maths.lth.se/matematiklth/personal/fredrik/>
WWW2: <https://www.chalmers.se/en/staff/Pages/fredrik-kahl.aspx>
- Professor Michael S. Brown
Dept of Electrical Engineering and Computer Science,
Lassonde School of Engineering, York University.
Email: mbrown@eecs.yorku.ca
WWW: <http://www.cse.yorku.ca/~mbrown/>
- Professor Richard Hartley
Research School of Computer Science,
College of Engineering and Computer Science,
The Australian National University.
Email: Richard.Hartley@anu.edu.au
WWW: <https://cecs.anu.edu.au/people/richard-hartley>
- Professor Tomas Pajdla
Institute for Informatics, Robotics and Cybernetics,
Czech Technical University,
Email: pajdla@cvut.cz
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- Professor Yasuyuki Matsushita
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WWW: <http://www-infobiz.ist.osaka-u.ac.jp/en/member/matsushita/>
- Professor Jiri Matas
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