

Professor CHAN, KWING LAM

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Macau University of Science and Technology



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Academic Qualification:

Ph.D. in Physics, Princeton University, USA

B.A. in Physics, University of California, Berkeley, USA

Teaching Area

Mathematics

Physics

Astrophysics

Computation

Fluid Dynamics

Research Area

Astrophysics, Lunar and Planetary Sciences, Atmospheric Science, Astrophysics,
Computational Fluid Dynamics

Working Experience

2015-present Macau University of Science & Technology, Macau

1994-2015 Hong Kong University of Science & Technology, Hong Kong

1980-1994 Applied Research Corporation (Goddard Space Flight Center/NASA),
Greenbelt

1977-1980 Queen's University, Kingston

1976-1977 Calgary University, Calgary

1874-1976 IBM Thomas J. Watson Research Center, Yorktown Heights

Academic Publication (selected)

Over 100 SCI papers; Google: Citation over 3600, H index 32

Five Representative papers:

1. Chan, K.L., and Mayr, H.G. 2013, Numerical Simulation of convectively generated vortices: Application to the Jovian Planets, Earth and Planetary Sci. Lett., 371-372: 212-219
2. Chan, K.L., Tsang, K.T., Kong, B., & Zheng, Y.C. 2010, Lunar regolith thermal behavior revealed by Chang'E-1 microwave brightness temperature data, Earth and Planetary Sci. Lett. 295: 287-291.
3. Chan, K.L. 2001, Rotating convection in f-planes - mean flow and Reynolds stress, Astrophys., 548: 1102-11

4. Chan, K.L., and Sofia, S. 1987, Validity tests of the mixing-length theory of deep convection, *Science*, 235: 465-467

5. Chan, K.L., and Henriken, R.N. 1980, On the supersonic dynamics of magnetized jet of thermal gas in radio galaxies, *Astrophys. J.*, 241: 534-551

Research Grants

20 Grants as PI from RGC Hong Kong/Macau FDCT Macau/NSF USA/British Council Hong Kong

12 Grants as Co-I

Professional Certification and Awards

1998-1999 Senior Research Fellow, Noel Croucher Foundation, Hong Kong

Journal Editorship

2020-present Associate Editor of *INNOVATION Journal*

2019-2022 Academic Editor of *Advances in Astronomy*