Academic Staff Resume

Professor CHAN, Kwing Lam

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Photo

Academic Qualification:

Ph.D. in **Physics**, Princeton University, USA, 1974
M.A in Physics, Princeton University, USA, 1972
B.A. in Physics, University of California (Berkeley), USA, 1970

Teaching Area

Graduate Courses:

Introducation to Modern Astronomy

Research Area

Lunar and Planetary Science
Astrophysics
Numerical Simulation
Applied Mathematics

Working Experience

1974-1976: Postdoctoral Fellow, IBM Thomas J. Watson Research Center, USA
1976-1977: Postroctoral Fellow, Calgary University, Canada
1977-1980: Research Associate/ Lecturer, Queen's University, Canada
1980:1994: Senior Scientist, Applied Research Corporation (NASA Goddard Space Flight Center), USA
1994:2015: Professor/ Senior Lecturer, Hong Kong University of Science and Technology, China

Academic Publication (Since 2010)

Chan, K. L., & Mayr, H. G. 2013, Numerical simulation of convectively generated vortices: Application to the Jovian planets, Earth and Planetary Sci. Lett., 371-372: 212-219

Cai, T., & Chan, K. L. 2012, Three-dimensional numerical simulation of convection in giant planets: Effects of solid core size, Planet. Space Sci., 21: 125-130

Zheng, Y. C., Tsang, K. T., Chan, K. L., Zou, Y. I., Zhang, F., & Ouyang, Z. Y. 2012, First microwave map of the Moon with Chang'E-1 data: The role of local time in global imaging, Icarus, 219: 194-210

Cai, T., Chan, K. L., & Deng, L. 2011, Numerical simulation of core convection by a multi-layer semi-implicit spherical spectral method, J. Comput. Phys., 230: 8698-8712.

Mayr, H. G., Mengel, J. G., Chan, K. L., & Huang, F. T. 2011, Middle atmosphere dynamics with gravity wave interactions in the numerical spectral model: Tides and planetary waves, J Atmos. Sol.-Terr. Phys., 73: 711-730

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

Mayr, H. G., Mengel, J. G., Chan, K. L., & Huang, F. T. 2010, Middle atmosphere dynamics with gravity wave interactions in the numerical spectral model: Zonal-mean variations, J. Atmos. Sol.-Terr. Phys., 72: 807-828

Professional Certification and Awards

Senior Research Fellowship, Noel Croucher Foundation, Hong Kong

Professional Society Membership

Lifetime Member of American Physical Society
American Astronomical Society
International Astronomical Union
American Geophysical Union