

Academic Staff Resume

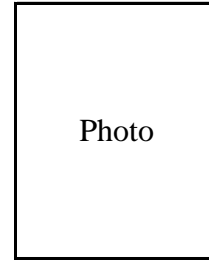
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Academic Qualification:

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:

Introduction 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: Postdoctoral 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