

Curriculum Vitae

Yuh-Lang Lin, PhD

Professor

Dept of Physics and

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Education

Ph.D.: Yale University, Meteorology and Geophysical Fluid Dynamics, 1984

M.S.: South Dakota School of Mines and Technology, Meteorology, 1979

M.A.: Fordham University, New York, Mathematics, 1978

B.S.: Fu Jen Catholic University, Taiwan, Mathematics, 1976

Areas of Research Interest

- Mesoscale Dynamics and Modeling
 - Mountain Meteorology
 - Storm Dynamics and Moist Convection
 - Gravity Waves and Turbulence
 - Forest Fire Dynamics
 - Mars Atmosphere Modeling
- Tropical Cyclone and Tropical Wave Dynamics
- Cloud Microphysics and Dynamics

Professional Experience

08 – present: Professor, Department of Physics; Department of Energy & Environmental Systems
17 (su): Ministry of Science & Technology (MOST) Chair Professor, National Central University, Taiwan
08 – 12: Distinguished Scientist for the NOAA ISET Center led by NC A&T State University
11 – 16: Graduate Faculty, Department of Civil and Environmental Engineering, Duke University (Term membership: 11/1/11 – 11/30/16)
98 – 07: Professor, Department of Marine, Earth, and Atmos. Sci. (MEAS), North Carolina State University (NCSU)
93 – 98: Associate Professor, MEAS, NCSU
87 – 93: Assistant Professor, MEAS, NCSU
84 – 87: Drexel Fellow, Department of Physics and Atmospheric Science, Drexel University
83 – 84: Postdoctoral Associate, Department of Geology and Geophysics, Yale University
82 (su): Predoctoral Fellow, NATO Advanced Study Program on Mesoscale Meteorology
80 – 83: Research/Teaching Assistant, Department of Geology & Geophysics, Yale University
78 – 79: Research Assistant, Department of Meteorology, S. D. School of Mines & Technology
76 – 78: Teaching Assistant, Department of Mathematics, Fordham University

Synergistic Activities

Developed the cloud microphysics parameterization scheme with R. D. Farley and H. D. Orville (Lin, Farley and Orville, 1983, J. Appl. Meteor. & Climate - Also known as Lin-Farley-Orville, LFO or Lin et al. microphysics parameterization scheme).
Published an advanced graduate textbook – “*Mesoscale Dynamics*” (Cambridge University

Press, 2007, 630pp)
MOST Chair Professorship (summer 2017), Nat'l Central University, sponsored by the Ministry of Science & Technology, Taiwan
Coordinated research among 31 PIs in 7 partner universities as the distinguished (chief) scientist for NOAA ISET Center (2008-12)
Editor, Open Physics
Associate Editor, Frontiers in Earth Science
Graduate faculty of Duke University (2011-16)
Senior Research Award, College of Arts & Sciences, NC A&T State University
Foreign Advisor, Central Weather Bureau, Taipei, Taiwan
Served as a leader in the UNC Tomorrow Global Warming Task Force, 2008
Review Panel, National Environmental Research Council, UK, 2006-07
Board member, PhD program development committee, Addis Ababa University, Ethiopia
Editor, East Asian Journal of the Atmospheric Sciences (2007-11)
Steering Committee member for TiMREX (2007)
AMS Mesoscale Conference Committee, 2001-04
Scientific Committee, East Asian Mesoscale Conferences (Korea (99); Taiwan (01); Japan (02))
President, North America Taiwanese Professors' Association, 1996-97
Co-Chair (with Dr. P. Arya) of the Seventh Southeast Conference on Geophysical Fluid Dynamics, 1990
Participated in field programs: TiMREX, T-REX, MAP, AMMA, TAMEX, and GALE

Teaching Experience

Courses Taught:

- (a) Undergraduate: [NCAT] College Phys II, Atmospheric Thermodynamics, Atmospheric Dynamics I, II, Weather Systems; [NCSU] Air Processes & Motion I, II, Atmospheric Thermodynamics I, II, Atmospheric Dynamics I, II, [Drexel] General Physics I; FORTRAN Programming
- (b) Graduate: [NCAT] Dynamic Meteorology; Numerical Weather Prediction; Tropical Meteorology; Mountain Meteorology; Storm Dynamics; Graduate Seminar; EES Doctoral Seminar; [NCSU] Dynamic Meteorology; Mesoscale Modeling; Mesoscale Dynamics; Mesoscale Wave Dynamics; Numerical Weather Prediction; Advanced Physical Meteorology

Sponsored Research: Conducted a relatively large number of research projects for various funding agencies

Publications

- (i) Books: Lin, Y.-L., 2007: [Mesoscale Dynamics](#), Cambridge University Press, 630pp.
- (ii) Refereed papers: Published more than 120 peer-reviewed journal papers (see <http://mesolab.us> => publication or [Google Scholar Citation](#))
- (iii) Conference Preprints, Abstracts, and Presentations: Delivered more than 350 presentations in national and international conferences and invited talks