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Ph.D., Atmospheric Sciences, University of Illinois at Urbana-Champaign, 1988.

UCLA:

Professor, Atmospheric and Oceanic Sciences (appointed 1991, tenured 1997).

Undergraduate faculty advisor, Atmospheric and Oceanic Sciences (since 1991).

Co-founder and co-chair, Interdepartmental Program in Mathematics/Atmospheric and Oceanic Sciences (since 2004).

Faculty Executive Committee, College of Letters and Science (member since 2004, chair starting 2007).

Affiliated faculty member, UCLA Institute of the Environment.

Physical Sciences General Education Committee (since 2002).

Academic Senate Committee on Teaching (since 2006).

Clay Scholarship Committee (since 2006).

Awards:

UCLA Distinguished Teaching Award (Harvey L. Eby Award for the Art of Teaching, 2005).

Professional:

Member, American Meteorological Society (AMS), Royal Meteorological Society, and American Geophysical Union.

Member, AMS Committee on Mesoscale Processes (starting 2007).

Past appointments: Associate Editor, *Monthly Weather Review*; AMS Committee on Severe Local Storms; AMS Committee on Mesoscale Processes (1994-97); University Corporation for Atmospheric Research representative; NSF Graduate Fellowship panelist.

Other:

Appeared in *Hollywood Science: Forces of Nature*, National Geographic Channel (2006) and *Now See This*, Discovery Channel (2003).

Publications, including recent conference papers:

Fovell, R. G., and Y. Ogura, 1988: Numerical simulation of a midlatitude squall line in two dimensions. *Journal of the Atmospheric Sciences*, **45**, 3846-3879.

Fovell, R. G., and Y. Ogura, 1989: Effect of vertical wind shear on numerically simulated multicell storm structure. *Journal of the Atmospheric Sciences*, **46**, 3144-3176.

Fovell, R. G., 1991: Influence of the Coriolis force on two-dimensional model storms. *Monthly Weather Review*, **119**, 606-630.

Fovell, R. G., D. R. Durran, and J. R. Holton, 1992: Numerical simulations of convectively generated gravity waves in the stratosphere. *Journal of the Atmospheric Sciences*, **49**, 1427-1442.

Fovell, R. G., and M.-Y. C. Fovell, 1993: Climate zones of the conterminous United States defined using cluster analysis. *Journal of Climate*. **6**, 2103-2135.

Houze, R. A., Jr., W. Schmid, R. G. Fovell, and H.-H. Scheisser, 1993: Hailstorms in Central Switzerland: Left movers, right movers, and false hooks. *Monthly Weather Review*, **121**, 3345-3370.

Sun, J.., S. Braun, M. I. Biggerstaff, R. G. Fovell, R. A. Houze, Jr., 1993: Warm upper level downdrafts associated with a squall line. *Monthly Weather Review*, **121** 2919-2927.

Newman, W. I., J. K. Lew, G. L. Siscoe, and R. G. Fovell, 1995: Systematic effects of randomness in radiative transfer. *Journal of the Atmospheric Sciences*, **52**, 427-435.

Fovell, R. G., and P. S. Dailey, 1995: The temporal behavior of numerically simulated multicell-type storms. Part I: Modes of Behavior. *Journal of the Atmospheric Sciences*, **52**, 2073-2095.

Fovell, R. G., 1997: Consensus clustering of U.S. temperature and precipitation data. *Journal of Climate*, **10**, 1405-1427.

Piechota, T. C., J. A. Dracup, and R. G. Fovell, 1997: Western U.S. streamflow and atmospheric circulation patterns during El Nio-Southern Oscillation (ENSO). *Journal of Hydrology*, **201 (1-4)**, 249-271.

Fovell, R. G., and P.-H. Tan, 1998: The temporal behavior of numerically simulated multicell-type storms. Part II: The convective cell life cycle and cell regeneration. *Monthly Weather Review*, **26**, 551-577.

Dailey, P. S., and R. G. Fovell, 1999: Numerical simulation of the interaction between the sea-breeze front and horizontal convective rolls. Part I: Offshore ambient flow. *Monthly Weather Review*, **127**, 858-878.

Berk, R. A., and R. G. Fovell, 1999: Public perceptions of climate change: A willingness to pay assessment. *Climatic Change*, **41**, 413-446.

Fovell, R. G., and P.-H. Tan, 2000: A simplified squall-line model revisited. *Quarterly Journal of the Royal Meteorological Society*, **126**, 173-188.

Schoenberg, F., R. Berk, R. Fovell, C. Li, R. Lu, and R. Weiss, 2001: Approximation and inversion of a complex meteorological system via linear filters. *Journal of Applied Meteorology*, **40**, 446-458.

Berk, R. A., R. G. Fovell, F. Schoenberg, and R. E. Weiss, 2001: Some statistical tools for evaluating computer simulations: A data analysis approach useful for environmental models. *Climatic Change*, **51**, 119-130.

Fovell, R. G., and P. S. Dailey, 2001: Numerical simulation of the interaction between the sea- breeze front and horizontal convective rolls. Part II: Along-shore ambient flow. *Monthly Weather Review*, **129**, 2057-2072.

Fovell, R. G., 2002: Upstream influence of numerically simulated squall-line storms. *Quarterly Journal of the Royal Meteorological Society*, **128**, 893-912.

Berk, R. A., P. Bickel, K. Campbell, R. Fovell, S. Keller-McNulty, E. Kelly, R. Linn, B. Park, A. Perelson, N. Rouphail, J. Sacks, and F. Schoenberg, 2002: Workshop on Statistical Approaches for the Evaluation of Complex Computer Models. *Statistical Science*, **17**, 173-192.

Fovell, R. G., 2003: Role of the rear inflow in organizing convective storms. Preprints, 10th Conf. on Mesoscale Processes, American Meteorological Society, 4 pp..

Fovell, R. G., and R. A. Houze, Jr., 2004: Discrete propagation and initiation of tropical oceanic convection. Preprints, 26th Conf. on Hurricanes and Tropical Meteorology, American Meteorological Society, p. 506-507.

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Fovell, R. G., 2004b: The 12 November 2003 Los Angeles hailstorm. Preprints, 22nd Conf. on Severe Local Storms, American Meteorological Society

Fovell, R. G., B. Rubin-Oster and S.-H. Kim, 2004: A discretely propagating nocturnal Oklahoma squall line: Observations and numerical simulations. Preprints, 22nd Conf. on Severe Local Storms, American Meteorological Society.

Fovell, R. G., 2005: Convective initiation ahead of the sea-breeze front. *Monthly Weather Review*, **133**, 264-278.

Fovell, R. G., and A. Seifert, 2005: The 19 June 2002 "mantle echo" case: Sensitivity to microphysics and convection initiation. 6th WRF/15th MM5 Users Workshop, National Center for Atmospheric Research.

Fovell, R. G., 2006: Impact of microphysics on hurricane track and intensity forecasts. Preprints, 7th WRF Users' Workshop, National Center for Atmospheric Research.

Kim, S.-H., R. G. Fovell and G. L. Mullendore, 2006: A mechanism for convective initiation in advance of squall lines. Preprints, 23rd Conf. on Severe Local Storms, American Meteorological Society.

Fovell, R. G., G. L. Mullendore, and S.-H. Kim, 2006: Discrete propagation in numerically simulated nocturnal squall lines. *Monthly Weather Review*, **134**, 3735-3752.

Hughes, M., A. Hall, and R. G. Fovell, 2006: Dynamical controls on the diurnal cycle of temperature in complex topography. *Climate Dynamics*, **29**, 277-292.

Fovell, R. G., and H. Su, 2007: Impact of cloud microphysics on hurricane track forecasts. *Geophysical Research Letters*, **34**, L24810, doi:10.1029/2007GL031723.