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## Curriculum Vita

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### *Dr. Curtis Neal James*

#### **Contact Information:**

Department of Meteorology  
Embry-Riddle Aeronautical University  
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Prescott, Arizona 86301-3720  
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#### **Education:**

University of Washington, Seattle, WA  
Department of Atmospheric Sciences  
*Thesis:* Radar Observations of Orographic Precipitation  
*Degree:* Ph.D.  
*Graduation:* June 2004

University of Arizona, Tucson, AZ  
Department of Atmospheric Sciences  
*Degree:* B. S. with honors, Atmospheric Science  
*Graduation:* May 1995

#### **Field Experience:**

Mesoscale Alpine Programme (MAP) – European Alps  
*Position:* Research Assistant  
*Duration:* Aug. - Nov. 1999

#### **Work/Teaching Experience:**

Embry-Riddle Aeronautical University, Prescott, AZ  
*Position:* Assistant professor  
*Courses Taught:* Meteorology I, Satellite and Radar Weather Interpretation, Weather Information Available to Aircrews, Thunderstorms  
*Duration:* Jan. 2000 - Present

UW Department of Atmospheric Sciences, Seattle, WA  
*Position:* Research assistant / Teaching assistant / Lead teaching assistant  
*Courses Taught:* Weather (T.A.)  
*Duration:* Sept. 1995 - Dec. 1999

Northwest Aviation College, Auburn, WA  
*Position:* Part-time meteorology instructor  
*Courses Taught:* Aviation Weather  
*Duration:* Sept. 1998 - Dec. 1998

National Weather Service, Tucson, AZ  
*Position:* Meteorological technician / Student intern  
*Duration:* May 1993 - Aug. 1995

#### **Activities and Awards:**

Board of Trustees Representative and Senate Executive Committee, ERAU, 2006 - 2009  
Chair of Institutional Effectiveness Committee, ERAU, 2004 - 2006  
SGA Faculty of the Semester, ERAU, Fall 2005  
Visiting Scientist, MeteoSwiss, Summer 2005  
Service Excellence Award, ERAU, January 2005  
Who's Who Among America's Teachers 2002, 2004, 2005  
Outstanding Faculty Award, College of Aviation, ERAU, May 2002  
Senator on Faculty Senate, Embry-Riddle Aeronautical University, 2001 - 2003  
Outstanding Meteorology Faculty, Embry-Riddle Aeronautical University, Dec. 2001  
Outstanding Club Advisor, Embry-Riddle Aeronautical University, 2000-2001  
Senator on Graduate and Professional Student Senate, University of Washington, 1997-1998  
Outstanding Senior Award: Atmospheric Sciences, University of Arizona, May 1995  
American Meteorological Society Dr. Pedro Grau Scholarship, Oct. 1994  
Valedictorian of graduating class (~550 students), Prescott High School, May 1989

**Societies:**

Phi Beta Kappa Honor Society, May 1995 -  
American Meteorological Society, 2004 -

**Relevant Skills:**

UNIX, PC platforms  
C, FORTRAN, Perl, IDL, and HTML programming  
Experience in radar data processing and editing  
Familiarity with GrADS, GEMPAK, Zebra, and IVE visualization packages  
Foreign Languages: Portuguese (fluent), Spanish (semi-fluent), Italian (broken),

**Articles:**

James, C. N., and R. A. Houze, Jr., 2005: Modification of precipitation by coastal orography in storms crossing northern California. *Mon. Wea. Rev.*, **133**, 3110-3131.  
James, C. N., and R. A. Houze, Jr., 2001: A real-time four-dimensional Doppler dealiasing scheme. *J. Atmos. Oceanic Technol.*, **18**, 1674-1683.  
Houze, R. A., Jr., C. N. James, and S. Medina, 2001: Radar observations of precipitation and airflow on the Mediterranean side of the Alps: Autumn 1998 and 1999. *Quart. J. Roy. Meteor. Soc.*, **127**, 2537-2558.  
James, C. N., S. R. Brodzik, H. Edmon, R. A. Houze, Jr., and S. E. Yuter, 2000: Radar data processing and visualization over complex terrain. *Wea. Forecasting*, **15**, 327-338.  
Chong, M., J.-F. Georgis, O. Bousquet, S. R. Brodzik, C. Burghart, S. Cosma, U. Germann, V. Gouget, R. A. Houze, Jr., C. N. James, S. Prieur, R. Rotunno, F. Roux, J. Vivekanandan, and Z.-X. Zeng, 2000: Real-time wind synthesis from Doppler radar observations during the Mesoscale Alpine Programme. *Bull. Amer. Meteor. Soc.*, **81**, 2953-2962.

**Invited Talks/Papers Presented at Conferences:**

Grey, P., D. Ivanova, and C. James, 2009: A review of the temporal and spatial variability of the monsoonal boundary. American Geophysical Union Fall Meeting: San Francisco, CA.  
James, C. N., 2008: Weather radar imagery interpretation in the cockpit. Southwest Aviation Weather Symposium (SAWS) Workshop II. Salt River Project. Phoenix, AZ. Preprints available online at the URL: [http://www.wrh.noaa.gov/psr/aviation/SAWS2\\_Workshop/](http://www.wrh.noaa.gov/psr/aviation/SAWS2_Workshop/).  
James, C. N., 2007: Integration of NEXRAD, Airborne radar and Stormscope. M/MOPA 17<sup>th</sup> Annual Convention. Tulsa, OK.  
James, C. N., 2007: Anticipating aviation weather hazards in the Southwest. Southwest Aviation Weather Safety Workshop. Salt River Project. Phoenix, AZ.  
Ivanova, D., and Curtis N. James, 2007: Mesoscale computer modeling of the North American monsoon in Arizona. American Geophysical Union Annual Meeting.  
Parsons, K., M. Sinclair, C. James, and R. Tomkins, 2005: A Weather Degree Program for the New Millennium: Phase II. 14<sup>th</sup> Symposium on Education, 85<sup>th</sup> Annual Meeting of the American Meteorological Society, San Diego, California, January 9-13, 2005.

- James, C. N., and R. A. Houze, Jr. 2004: Radar observations of orographic precipitation over coastal northern California. Preprints, *11<sup>th</sup> Conference on Mountain Meteorology*, online at the URL: <http://ams.confex.com/ams/pdfpapers/77273.pdf>.
- James, C., S. Brodzik, H. Edmon, R. A. Houze, Jr., and S. E. Yuter, 1999: MountainZebra: Real-time archival and 4-D visualization of radar volumes over complex terrain. Preprints, *COST-75 Final International Seminar on "Advanced Weather Radar Systems,"* Locarno, Switzerland, 297-306.