Resumé

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OBJECTIVE:

An opportunity to continue working within Air Quality modeling, turbulence, dispersion and dry deposition.

EDUCATION:

Ph.D. Atmospheric Science, University of Washington, June 1998
  Advisor: Professor Robert A. Brown. Thesis title: Oceanic Latent Heat Flux from Satellite Data
  Specialties: Planetary Boundary Layers, Dry Deposition, Turbulence, Surface Fluxes, Remote Sensing.

B.S. Engineering Physics, University of California at Berkeley, June 1987

QUALIFICATIONS:

Expert on atmospheric fluxes: pollution (dry deposition), water vapor, carbon dioxide, heat, etc.
Experienced in both Unix and MS Windows environments.
Excellent computer skills, with multi-platform experience in scientific programming.
Experienced with massive data sets, statistical and analytical techniques.
Fluent is several programming and scripting languages.
Excellent verbal and written communication skills.
Fluent in Swedish, native speaker of English.

PROFESSIONAL EXPERIENCE:

- **Atmospheric Sciences Modeling Division, ARL, NOAA, Research Triangle Park, NC**
  (Joint with Atmospheric Modeling Division, National Exposure Research Laboratory, US EPA)
  Post-Doctoral Research Associate, 1998 – Present
  - Co-developed a new Multi-Layer Bio-Chemical (MLBC) model for gaseous Dry Deposition of pollutants.
  - Validated the MLBC model against direct flux measurements taken over a variety of crops and forests.
  - The MLBC model is suitable for traditional MET data and regional Air Quality models.
  - Improved the existing NOAA Multi-Layer Model (MLM) for Dry Deposition
  - Funded by the National Research Council competitive grants.

- **University of Washington, Department of Atmospheric Sciences; Seattle, WA**
  Research Assistant, 1991 – 1998
  - Developed a new method for estimating latent heat flux over the world's oceans using satellite data. Development and validation relied on a large collection of atmospheric soundings and ship data (MET and turbulence).
  - Developed and maintained code for R.A. Brown's PBL model.
  - Gave numerous in-house seminars.
- **Teaching Assistant**, Winter 1993
  - Co-T.A. for *Weather*, an introductory courses for non-science majors. Delivered daily weather briefings and occasional lectures, wrote and graded all homework and tests, and led 3 weekly quiz sections.

- **Tracer Technologies; San Marcos, CA**
  Manager of Computer Services, 1989 – 1991
  - Responsible for data from several automated ambient monitoring stations (permitting support).
  - Designed and installed automated feedback system from monitoring station downwind of refineries.
  - Designed and implemented hand-held data collection systems for leak detection in refineries.

References available upon request.