

To Whom It May Concern:

I am writing to apply for the position of Research Scientist with Air Worldwide in Boston, MA. My expertise in extra-tropical cyclones and storm tracks is well aligned with the position's goal of understanding and assessing the risk associated with these and other meteorological phenomena. The importance of this topic is no doubt highlighted by the extra-tropical transition and devastating impacts of "Super Storm Sandy."

As a Ph.D. candidate and researcher at the University of Utah I have focused on assessing the location and intensity of northern hemisphere extra-tropical cyclones. In my master's thesis and subsequent publication, I developed a novel methodology for diagnosing storm tracks and their interannual variability over western North America. This method uses the large-scale vertical motion associated with each storm to define and map a storm "footprint" and storm track. I have subsequently expanded the methodology to examine the climatology of storms over the entire northern hemisphere and am currently working on operational storm track diagnostics. In addition to my research, I have also been employed as an instructor for a senior and graduate level Synoptic Meteorology course focused on the dynamics of extra-tropical cyclones, fronts, and their associated weather..

More broadly, during my academic career I have developed a robust background in meteorology at all scales and established strong programming, data analysis, and statistical skills. I am adept at working with large and complex data sets, distilling relevant information, and conveying that information both verbally and in writing.

In addition to my meteorological expertise, I am a well-versed communicator and leader. I consider communication to be one of my strongest skills, whether in the classroom as an instructor, as a presenter at a conference, giving a tour at the Mt. Washington Observatory, or as a leader in a decision-making environment.

I'd be excited to hear back from your office about how I might apply my expertise in meteorology to solving problems for Air Worldwide and its clients.

Thank you for your time,

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