RYAN R. SPIES

Objective

To obtain a position with a progressive organization in a hydrology related field emphasizing the science and application of watershed management and modeling, utilizing my skills and experience implementing hydrologic instrumentation and software.

Education: Iowa State University

Candidate: Master of Science Geology

Proposed Thesis Title: Satellite-derived potential evapotranspiration for distributed hydrologic runoff modeling in Midwest watersheds 2011

Bachelor of Science Meteorology

- Senior Thesis: August 2010 flood inundation mapping using GIS and LIDAR data along the Squaw Creek in • Ames, IA
- Best Senior Thesis Award, 2010 Iowa State University Atmospheric Sciences Program .
- Dean's list: Fall 2007, Spring 2009, Fall 2009, Spring 2010, Spring 2011, Fall 2011
- Member of the National Society of Collegiate Scholars
- GPA: 3.75

Experience

Iowa State University

- Research Assistant: Designed project, acquired data, prescribed modifications, installed model, and performed • statistical analysis. Presented research at the national AGU fall meeting in 2012 and 2013.
- Teaching Assistant: Taught 2 semesters of independent instruction of laboratory sections in upper level surface water hydrology class. Responsible for leading field work sections. Outstanding student evaluations in all areas. 2011

National Weather Service

Volunteer Internship: Hands on student training with current NWS employees learning the responsibilities of a full time weather/streamflow forecaster, recorded daily snowfall measurements, enhanced atmospheric/hydrologic forecasting skills, and refined communication and management skills while conducting past weather event simulator cases.

WHO-Channel 13 Weather Department

Volunteer Internship: Generated state-wide weekly weather forecasts, composed television program graphics, polished communication skills, and assisted with live severe weather coverage.

Skills and Affiliations

- Skilled in the following: data acquisition, data analysis, surface water and groundwater modeling, site assessment, and atmospheric/hydrologic forecasting.
- **Computer Skills** .
 - Proficient experience with the following: Windows OS, Linux OS, Microsoft Office, Geographic Information System (GIS), Community Hydrologic Prediction System (CHPS), Hydrologic Engineering Center River Analysis System (HEC-RAS), Groundwater Vistas, MODFLOW, Hydrologic Laboratory Research Distributed Hydrologic Model, Sacramental Soil Moisture Model (SAC-SMA), SNOW-17.
 - Programming experience with Python, Fortran, Matlab, and HTML. 0
- Affiliations
 - American Geophysical Union 0
 - American Meteorological Society \cap

Leadership and Service

- ISU American Meteorological Society: local outreach events within the community promoting severe weather preparation
- Nevada Middle School: Volunteer after school academic tutor and basketball coach
- Cy's Eyes: Student-run local television network local weather program

2011-2013

Summer 2010

May 2013