

RUSS S. SCHUMACHER

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EDUCATION

COLORADO STATE UNIVERSITY

Department of Atmospheric Science
Doctor of Philosophy

Fort Collins, CO

Expected 2007

Master of Science

December 2003

Thesis: *Climatological and Radar-Indicated Characteristics of
United States Extreme Rain Events*

Advisor: Richard H. Johnson, Ph.D.

VALPARAISO UNIVERSITY

Bachelor of Science, Summa Cum Laude

Valparaiso, IN

May 2001

Majors: Meteorology, Humanities

Minor: Mathematics

Christ College Scholar (Interdisciplinary Honors Program)

EXPERIENCE

COLORADO STATE UNIVERSITY

Department of Atmospheric Science, Johnson Research Group

Fort Collins, CO

M.S. candidate, Graduate Research Assistant

2001-2003

Ph.D. candidate, Graduate Research Assistant

2003-present

- Research interests: mesoscale convective systems, extreme precipitation events, flash floods
- Analyzed real-time data in support of forecasting and scientific operations during the North American Monsoon Experiment (NAME), summer 2004

M.S. Student Representative

2002-2003

Ph.D. Student Representative

2004-2005

- Relayed student concerns regarding department activities and financial issues to the faculty and administration.
- Assisted in evaluating potential faculty members and in organizing department events

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

Boulder, CO

Participant, Advanced Study Program Summer Colloquium

July 2006

- Participated in two-week program on "The Challenge of Convective Forecasting"
- Interacted with leading scientists and forecasters through lectures and forecasting exercises on the problem of predicting warm-season convection
- Presented research to other graduate students and NCAR scientists

AMERICAN METEOROLOGICAL SOCIETY

Washington, DC

Student Participant, Summer Policy Colloquium

June 2005

- Received education and training in aspects of science policy
- Interacted with numerous leaders in fields where science and policy interact
- Presented to fellow participants regarding funding for weather and climate research

VALPARAISO UNIVERSITY

Valparaiso, IN

President of the Student Body

2001-2002

- Chief Executive of the Student Senate, VU's student governing body.
- Responsible for governance and funding of over eighty student organizations.
- Initiated programs and recommended policies to help improve student life on campus.
- Met frequently with the University President and other administrators to discuss student issues.
- Represented student body at functions both on campus, in the community, and in the state legislature.

TEACHING

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| Instructor – Daily Weather Lab II | Spring 2007 |
| Graduate Teaching Assistant – Introduction to Weather and Climate | Spring 2006 |
| Graduate Teaching Assistant – Daily Weather Lab II | 2004, 2005 |

REFEREED PUBLICATIONS

Schumacher, R.S., and R.H. Johnson, 2006: Characteristics of U.S. Extreme Rain Events during 1999-2003. *Weather and Forecasting*, **21**, 69-85.

Schumacher, R.S., and R.H. Johnson, 2005: Organization and Environmental Properties of Extreme-Rain-Producing Mesoscale Convective Systems. *Monthly Weather Review*, **133**, 961-976.

SELECTED PRESENTATIONS

Tenth Annual Northern Plains Convective Workshop, Aberdeen, SD, 17-19 April 2006 (invited presentation)

Fourth Joint Korea-U.S. Workshop on Mesoscale Observation, Data Assimilation and Modeling for Severe Weather, Seoul, South Korea, 13-17 February 2006

Eleventh Conference on Mesoscale Processes, American Meteorological Society, Albuquerque, NM, 24-28 October 2005

Christ College Symposium, Valparaiso University, September 2005

Research Applications Laboratory Seminar, National Center for Atmospheric Research, January 2005

Herbert Riehl Memorial Seminar, Colorado State University Department of Atmospheric Science, May 2004

Tenth Conference on Mesoscale Processes, American Meteorological Society, Portland, OR, 23-27 June 2003

AWARDS/HONORS

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| “Paper of Note,” Bulletin of the American Meteorological Society | 2005 |
| Herbert Riehl Award (Outstanding paper by a graduate student) | 2004 |
| Honorable Mention, National Science Foundation Graduate Fellowship | 2003 |
| American Meteorological Society Graduate Fellowship | 2001-2002 |
| Valparaiso University Student Affairs Leadership and Service Award | 2001 |
| Valparaiso University Alumni Association Distinguished Student | 2001 |

SERVICE

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| Member, American Meteorological Society | 1999-present |
| Reviewer, <i>Monthly Weather Review</i> | 2004-present |
| Presented information on severe weather and storm chasing to students at Thompson Valley High School, Loveland, CO | May 2006 |
| Presented weather demonstrations to an elementary school program for Discovery Science Center, Fort Collins, CO | June 2006 |

PERSONAL

Jeopardy! game show: Four-day champion, winner of 2004 Tournament of Champions