

Shraddhanand Shukla
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Civil and Environmental Engineering
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Education

- **University of Washington**, Seattle *Sep 2006 – Present*
PhD student in Civil and Environmental Engineering, Current **GPA: 3.58/4**
- **Indian Institute of Technology**, Kharagpur, India *July 2003 – June 2005*
Master of Technology in Water Resources Development and Management, GPA: **9.14/10**
- **Chandrashekhar Azad University of Agricultural and Technology**, Kanpur, India *July 1999 – May 2003*
Bachelor of Technology in Agricultural Engineering, GPA: **7.86/10.00**

Research experience

- **Using NOAA Climate Forecasts with Hydrologic Assessment to reduce Drought Vulnerability and improve Water management in Washington State** Funded by NOAA-SARP *Sep 2006 - Present*
PIs: Dr. A. C. Steinemann and Dr. A. W. Wood, University of Washington

- Involved in development of the Hydrological Monitoring and Prediction System for Washington State at 1/8 and 1/16th deg resolution (<http://www.hydro.washington.edu/forecast/sarp/>). Currently working on development of the hydrological model based drought indices.
- **COMMON Sense project** (Community-Oriented Management and Monitoring of Natural Resources through sensor network) www.commonsense.epfl.ch *Oct 2005 – June 2006*
Project Head: Prof. A. Mermoud, ISTE- Swiss Federal Institute of Technology (EPFL)
- **Modelling Sediment Transportation in Furrow Irrigation.** (Master's Thesis) *June 2004 – May 2005*
Project Guide: Prof. N. S. Raghuwanshi. Department of Ag.& FE- Indian Institute of Technology- Kharagpur (India)
- **Design and Economical Analysis of Different Water conveyance Systems.** (Bachelor's Thesis)
June 2004 – May 2005
Project Guide: Dr. Mohd. Gufran, Er. Anil Kumar Sahu. Chandrashekhar Azad university of Ag. And Tech., Kanpur (India)

Summer Training

- **Watershed management and Artificial Groundwater Recharge** *June 2002*
Central Institute of Agricultural Engineering-Bhopal (India)
- **Farm Machinery and Power** *July 2001*
Central Farm Power Training and Testing Institute-Budani (India)

Academic Honors and Scholarship Awarded

- **Federal Commission Scholarship** by Swiss Government for pursuing nine month research work in EPFL.
- **Ministry of Human Resources and Development Scholarship** for pursuing post-graduate study in Indian Institute of Technology.
- Achieved **98.31 percentile** with all India rank-10 in the Graduate Aptitude Test for Engineering-2003 common entrance test conducted by all seven **Indian Institute of Technology** for post-graduation studies.

Computer Skills

- **Programming:** C, Visual Basic, Perl, html
- **Tools:** MATLAB, ArcInfo and ArcGis

Publications

- **S. Shukla**, M. Damodhara Rao, R. Singh, N.S. Raghuwanshi, G.H. Schmitz, F. Lennartz. 2005. "Modeling Temporal Variation of Soil Erosion in Furrow Irrigation." Proceedings of International Symposium on Recent Advances in Water Resources Development and Management held at IIT-Roorkee.
- V. Mishra, N. S. Raghuwanshi, **S. Shukla**, G. H. Schmitz. 2005. "Regional Flood Frequency Analysis of Freiburger Mulde Catchment by L-Moments." Proceedings of International Symposium on Recent Advances in Water Resources Development and Management held at IIT-Roorkee
- V. Mishra, N.S. Raghuwanshi, **S. Shukla**, J. Cullmann, G.H. Schmitz. 2006. Understanding runoff generation process through scaling of flood peaks. International Conference in University of Agriculture Faisalabad, Pakistan
- **S. Shukla**, M. Damodhara Rao, N.S. Raghuwanshi, R. Singh 2006. "A simple mathematical model for simulating water flow in furrow irrigation." International Conference in University of Agriculture Faisalabad, Pakistan

Poster Presented

- Wood, A., A. Steinemann, D. Alexander and **S. Shukla**, Fall AGU Meeting (San Francisco), Dec-2006. "Applications of Medium Range To Seasonal/Interannual Climate Forecasts For Water Resources Management In the Yakima River Basin of Washington State"
- **S. Shukla**, and D. Alexander, Annual Review of Research of The Water Center, 2007. "Applications of Medium Range To Seasonal/Interannual Climate Forecasts For Water Resources Management In the Yakima River Basin of Washington State"
- **S. Shukla**, D. Alexander, Wood, A., and A. Steinemann, The Climate Prediction Applications Science Workshop, 2007, "Applications of Medium Range To Seasonal/Interannual Climate Forecasts For Water Resources Management In the Yakima River Basin of Washington State"