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## SOLOMON FOLLE

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### EDUCATION

#### University of Minnesota, St. Paul, Minnesota

Ph.D., Soil Science (minor in Water Resources Science), 2009

*Soil and Water Assessment Tool (SWAT) Modeling of Sediment, Nutrient, and Pesticides in the Le Sueur River Watershed of South-Central Minnesota*

#### University of Alemaya, Ethiopia

M.Sc., Soil and Water Conservation, 2002

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### WORK EXPERIENCE

#### Stone Environmental, Inc.

Montpelier, Vermont, USA  
*Senior Environmental Modeler*,  
September 2010 – Present

Manages and conducts watershed model development for sediment, nutrient, and pesticides for surface water and groundwater; performs contaminant surface and groundwater monitoring and risk. Responsible for application programming, advanced spatial analysis, and ensuring that project deliverables exceed client expectations.

#### University of Minnesota, Department of Soil, Water, and Climate

St. Paul, Minnesota, USA  
*Post-Doctoral Research Associate*,  
1/2010 – 9/2010  
*Research Assistant*, 6/2004 – 12/2009

Responsible for SWAT model development for sediment, nutrient, and pesticides surface and groundwater resources; contaminant surface and groundwater monitoring and risk analysis using modeling approach; modeling groundwater leaching risk assessment of selected pesticides for the State of Minnesota using the WIN-PST model; modeling best management practices for sediment, nutrient and pesticides; modeling water quality and environmental impacts of biofuel

crops alternatives; and integration of hydrological models into GIS.

#### AGRI-Service, Ethiopia

Addis Ababa, Ethiopia  
*Natural Resources Program Manager*,  
9/2002 – 10/2003

Responsible for natural resources conservation strategy design and implementation; modeling watershed hydrology and soil erosion; implementation of watershed based soil and water conservation practices; wetland delineation and development; natural resources project design and fund raising; and monitoring and evaluation of projects in five program offices in Ethiopia.

#### University of Alemaya, Department of Agricultural Engineering

Alemaya, Ethiopia  
*Graduate Research Assistant*, 9/2000 – 7/2002

AGNPS model development for analysis of soil erosion and sedimentation of Lake Alemaya watershed.

#### Ministry of Agriculture, Oromia Region Department of Natural Resources

Addis Ababa, Ethiopia  
*Team Leader of Soil and Water Conservation*, 5/1995 – 9/2000

Design and study of programs and projects for the major river basins; watershed projects study and project formulation; project monitoring and

evaluation; application of watershed best management practices (BMPs); and training watershed technicians on design and construction of BMPs.

#### Ministry of Planning and Economic Development

Addis Ababa, Ethiopia  
*Senior Planning Expert*, 1991 – 1992  
*Junior Planning Expert*, 1987 – 1990

Long-term and short-term planning of natural resources development projects; project appraisal and budget allocation; and monitoring and evaluation of natural resources development projects.

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### PUBLICATIONS AND PRESENTATIONS

Moon, J-Y., S. Folle, J. Aplant, and D. Mulla. 2010. "Economic and Environmental Impacts of Cellulostic Feedstock Production in Minnesota". Presentation at the Agricultural & Applied Economics Association 2010 AAEA, CAES, & WAEA Joint Annual Meeting. Denver, Colorado.

Folle, S. and D. J. Mulla. 2009. "Modeling Upland and Channel Sources of Sediment in the Le Sueur River Watershed, Minnesota". Proceedings of the International SWAT Conference. University of Colorado, Boulder, CO. pp 197- 202.

Folle, S. and D. J. Mulla. 2009. "Modeling Surface Water Quality Impacts of Biofuel Crop Alternatives

in South Central Minnesota”.  
Presentation at 2009 ASA-CSSA-  
SSSA International Annual  
Meetings. Pittsburgh, PA.

Folle, S. and D. J. Mulla. 2008.  
“Modeling Surface Water Quality  
Impacts of Biofuel Crop Alternatives  
in South Central Minnesota”. Poster  
presented at the Joint Annual  
Meeting – GSA | SSSA | ASA |  
CSSA | GCAGS | GCSSEPM.  
Houston, Texas..

Galzki, J.C., D. J. Mulla, S. Folle,  
and J. Nelson. 2008. “Identifying  
Critical Portions of the Landscape for  
Water Quality Protection Using GIS  
Terrain Analysis”. Poster presented  
at the Joint Annual Meeting – GSA |  
SSSA | ASA | CSSA | GCAGS |  
GCSSEPM. Houston, Texas.

Folle, S.M., F. Yohannes, S.M.  
Rashid. 2006. “Soil Erosion  
Assessment of Lake Alemaya  
Catchment, Ethiopia”. *Land  
Degradation & Development*. John  
Wiley & Sons, Chichester, UK: 2006.  
17: 3, 333-341. 19.

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#### ADDITIONAL EDUCATION

University of Alemaya, Ethiopia.  
1987. B.Sc., Agricultural  
Engineering.

BASINS/HSPF Training Workshop.  
2010. St. Paul, Minnesota.

Advanced Training on Soil and  
Water Assessment Tool (SWAT)  
modeling. 2006. College Station,  
Texas.

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#### SKILLS

*Water Resources Models:* SWAT,  
AGNPS, EPIC, HEC-1,  
TOPMODEL, MODFLOW, WIN-  
PST, PRSM, WMS

*Image processing/GIS:* ArcInfo,  
ArcGIS, ArcView

*Statistical:* Surfer, SPSS, SAS, R

*Programming:* Visual Basic

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#### PROFESSIONAL AND COMMUNITY ACTIVITIES

American Society of Agronomy

Crop Science Society of America

Soil Science Society of America

Member, American Society of  
Agricultural Engineers