2018 Curriculum Vitae

Name: Stephen Daniel DeGloria

Department/Unit: Section of Soil and Crop Sciences, School of Integrative Plant Science

Title: Professor Emeritus

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EDUCATION

Year	Degree		Institution
1986	Ph.D.	Soil Science	University of California, Berkeley
1976	M.S.	Soil Science	University of California, Berkeley
1972	B.S.	Soils & Plant Nutrition	University of California, Berkeley

ACADEMIC RANKS (year achieved)
Professor Emeritus: September 2016 – present
Professor: November 2002 – August 2016
Associate Professor: September 1992 – October 2002
Assistant Professor: September 1986 – August 1992

PRIMARY DEPARTMENTAL PROGRAM AREA
Soil Science faculty, Section of Soil and Crop Sciences
School of Integrative Plant Science
College of Agriculture and Life Sciences

AREAS OF EXPERTISE (key words)
Resource Inventory, Mapping, and Analysis; Remote Sensing; Geographic Information Science and Technology; Soil Survey, Interpretations, and Conservation.

PROFESSIONAL EXPERIENCE

Year	Experience
2016 – present	Professor Emeritus, Section of Soil and Crop Sciences, Cornell University
2002 – 2016	Professor, Section of Soil and Crop Sciences, Cornell University
1996 – 2016	Director, Cornell Institute for Resource Information Sciences
1999 – 2007	Department Chair, Crop and Soil Sciences, Cornell University
1992 – 2002	Associate Professor, Crop and Soil Sciences, Cornell University
1986 – 1992	Assistant Professor, Agronomy, Cornell University
1986 – 1996	GIS Program Leader, CLEARS, Center for the Environment, Cornell
1984 – 1989	Co-founder and President, Resource Survey Institute, Walnut Creek CA
1977 – 1984	Director, Remote Sensing Research Program, UC-Berkeley
1971 – 1984	Research Associate, Remote Sensing Research Program, UC Berkeley

PROGRAM OVERVIEW

My program seeks to advance the development and use of geospatial data for meeting the environmental information needs of society both domestically and internationally. My research has focused on: (1) improving the resource inventory process through the use of advanced aerospace imagery, (2) integrating remotely sensed data with environmental covariates for mapping agricultural and natural resources, and (3) integrating resource inventory data for use in spatially-explicit models of agronomic and environmental processes in mixed use landscapes. My international activities have focused on applied research and educational collaborations and consultancies in resource inventory, mapping, and analysis in over 20 countries, including Bangladesh, Brazil, Canada, China, Costa Rica, Dominican Republic, Ethiopia, France, Ghana, Honduras, India, Indonesia, Italy, Kenya, Lebanon, Moldova, Mozambique, Nepal, Netherlands, Philippines, and South Africa.

SABBATICALS AND STUDY LEAVES (year, project, location)

September 2007-July 2008: Visiting Professor, National Geospatial Development Center, NRCS-USDA, and Department of Plant and Soil Science, West Virginia University, Morgantown, WV. Advanced study in digital soil mapping, soil geo-databases, environmental modeling and site suitability analysis, curriculum development and evaluation, and international assignments in Ethiopia (Bahir Dar University) and China (Zhejiang University).

August 1994- January 1995: Fulbright Scholar, American Republics Research Program, Dominican Republic. Studying and teaching remote sensing and geographic information systems in the Escuela de Agronomia at the Universidad Nacional Pedro Henriquez Urena (UNPHU), and supporting research projects funded by CIIFAD-Cornell University and Global Environment Facility-United Nations.

HONORS AND AWARDS

Faculty Fellow, Atkinson Center for a Sustainable Future, Cornell University, 2011-2016.
Col. Claude H. Birdseye President's Citation, ASPRS, Bethesda MD, 2014.
Yong-qian Tang Chair Professor, Zhejiang University, Hangzhou, China, 2007- present.
Visiting Professor, Department of Plant & Soil Sciences, West Virginia University, 2007-2008.
Robert Musgrave Award, Department of Crop & Soil Sciences, Cornell University, 2006.
Guest Professor, Zhejiang University, Hangzhou, China, 2005.
Presidential Citation, ASPRS, 2005.
University Research Board Scholar, American University, Beirut, Lebanon, 2004.
Fulbright Scholarship, American Republics Research Program, Dominican Republic, 1994.

National Commendation Award, Soil and Water Conservation Society, Ankeny, Iowa, 1993.
Commendation Award, Soil and Water Conservation Society, Empire State Chapter, 1992.
Distinguished Service Award, Soil and Water Conservation Society, California Chapter, 1982.
Chapter Recognition Award, Soil and Water Conservation Society, California Chapter, 1979.
Group Achievement Award, National Aeronautics and Space Administration, 1979.
Regents Fellowship, University of California, Berkeley, California, 1976.

TEACHING AND ADVISING RESPONSIBILITIES

- PLSCS 4110 Resource Inventory Methods (< fall 2011)
- PLSCS 4200 Geographic Information Systems (every spring)
- PLSCS 4650 Global Navigation Satellite Systems (every spring)
- PLSCS 6200 Spatial Analysis and Modeling (< spring 2012)

INSTITUTIONAL GOVERNANCE AND PROFESSIONAL SERVICE

- **International/National:**

Member, Geospatial Innovation Facility (GIF) Advisory Board, UC – Berkeley, 2005 – 2016.
Member, Dept. of Agricultural Sciences Review Team, FAFS, American University of Beirut, 2014.
Chair, Education and Professional Development Committee, ASPRS, 2005 – 2007.

- **State/Local:**

Member, NYS GIS Land Use/Land Cover Working Group, 2006 – 2016.

- **University:**

Member and Chair ('15 – '16), University ROTC Relationships Committee (URCC), 2010 – 2016.
Academic Freedom and Professional Status of Faculty (2000 – 2003).
Faculty Senate Representative and Chair (1999 – 2000).
Faculty Advisory Board on Information Technology (FABIT), 1997 – 2000.

- **College:**

Committee to Support Teaching and Learning (2005-2009).
Member, CALS Nominations Committee (Chair, 2004-2005).
Ad hoc promotion to tenure committees (2).
Space Allocations Policy (2001-2002).
Member, Advisory Group in Electronic Technology (AGET), 1998-2000.

GRADUATE FIELD MEMBERSHIPS

- Soil and Crop Sciences
- Global Development

GRADUATE STUDENT ADVISING
Major Advisees:

- **Current Major Advisees (name, degree, field, expected completion)**

1.	McNally, P.	M.S.	Soil and Crop Sciences	2017

- **Total Completed Major Advisees (name, degree, field, date)**

1.	Neafsey, E.J.	Ph.D.	Soil and Crop Sciences	2012
2.	Popowitch, F.	M.P.S.	Environmental Management	2010
3.	Jena, N.N.	M.P.S.	International Development	2009
4.	Tun Lin Moe	M.P.S.	International Development	2009
5.	Neafsey, E.J.	M.S.	Soil and Crop Sciences	2008
6.	Mehta, V.	Ph.D.	Soil and Crop Sciences	2007
7.	Killilea, M.	Ph.D.	Soil and Crop Sciences	2005

8.	Owiyo, T.	Ph.D.	Soil and Crop Sciences	2005
9.	Braden, J.	M.S.	Soil and Crop Sciences	2002
10.	Chirova, S.	MPS.	Soil and Crop Sciences	2002
11.	Hill, E.	M.S.	Soil and Crop Sciences	2002
12.	Law, K.	MPS.	Soil, Crop, and Atmospheric Sciences	2001
13.	Post, C.	Ph.D.	Soil, Crop, and Atmospheric Sciences	2001
14.	Barney, J.	MPS.	Soil, Crop, and Atmospheric Sciences	2000
15.	Godilano, E.	Ph.D.	Soil, Crop, and Atmospheric Sciences	1998
16.	Osman, M	MPS.	International Development	1998
17.	Joerger, A.	Ph.D.	Soil, Crop, and Atmospheric Sciences	1997
18.	Mateos, A.	Ph.D.	Soil, Crop, and Atmospheric Sciences	1995
19.	Vargha, M B.	M.S.	Soil, Crop, and Atmospheric Sciences	1994
20.	Long, D.S.	Ph.D.	Soil, Crop, and Atmospheric Sciences	1993
21.	Silva, J.R.C.	Ph.D.	Soil, Crop, and Atmospheric Sciences	1990

Minor Advisees [from 18 graduate fields; MLA (=3), MPS (=3), MS (=26), PhD (=52)]:

- **Current Minor Advisees (name, degree, field, expected completion)**

1.	Chetima, M.M.	Ph.D.	Animal Science	2016
2.	Grantham, D.	Ph.D.	Soil & Crop Sciences	2016
3.	Shintani, A.	M.P.S.	Natural Resources	2016

- **Total Completed Minor Advisees (name, degree, field, date)**

1.	Smith, S.D.	Ph.D.	Natural Resources	2018
2.	Long, E.	M.S.	Animal Science	2016
3.	Jauss, V.	Ph.D.	Soil and Crop Sciences	2016
4.	Baumflek, M.	Ph.D.	Natural Resources	2015
5.	Montreuil, A.	M.S.	Atmospheric Sciences	2015
6.	Li, X.	Ph.D.	City and Regional Planning	2014
7.	Thinley, P.	Ph.D.	Natural Resources	2014
8.	Gatere, L.	Ph.D.	Soil & Crop Sciences	2012
9.	Caballero, L.	Ph.D.	Biological & Env. Eng.	2012
10.	Cheng, X.	M.S.	Biological & Env. Eng.	2012
11.	Roe, A.	M.S.	Natural Resources	2012
12.	Wharton, S.	M.S.	Soil & Crop Sciences	2012
13.	Milder, J.	Ph.D.	Natural Resources	2010
14.	Flores-Lopez, F.	Ph.D.	Biological & Env. Eng.	2009
15.	Ganser, A.	M.LA.	Landscape Architecture	2009
16.	Ahmed, Z.	Ph.D.	Soil & Crop Sciences	2008
17.	Bilgili, A.V.	Ph.D.	Soil & Crop Sciences	2008
18.	Ball, J.I.	M.S.	Soil & Crop Sciences	2008
19.	Colman, J.	Ph.D.	Natural Resources	2008
20.	Gallagher, E.	M.S.	Horticulture	2008
21.	Gami, S.	Ph.D.	Soil & Crop Sciences	2008
22.	Kapkiyai, J.	Ph.D.	Soil & Crop Sciences	2008
23.	Liu, B.	M.S.	Biological & Env. Eng.	2008
24.	Rein, T.A.	Ph.D.	Soil & Crop Sciences	2008
25.	Thinley, P.	M.S.	Natural Resources	2008
26.	Adriamanambina, P.	M.S.	Natural Resources	2007
27.	Gardner, E.	Ph.D.	Natural Resources	2007
28.	Magri, A.	Ph.D.	Civil & Env. Eng.	2007

29. Tan, I.	Ph.D.	Soil & Crop Sciences	2007
30. Bailey, K.	Ph.D.	Natural Resources	2006
31. Harawa, R.	Ph.D.	Soil and Crop Sciences	2006
32. Parker, S.	Ph.D.	Natural Resources	2006
33. Ansty, T.	M.S.	Civil & Env. Eng.	2005
34. Menete, Z.	Ph.D.	Soil and Crop Sciences	2005
35. Moses, W.	M.S.	Civil & Env. Eng.	2005
36. Debele, B.	Ph.D.	Biological & Env. Eng.	2005
37. Sinclair, K.	Ph.D.	Natural Resources	2005
38. Wang, C.	Ph.D.	Civil & Env. Eng.	2005
39. Sydenstricker, J.	Ph.D.	Development Sociology	2004
40. Warner, D.	Ph.D.	Natural Resources	2004
41. Wu, T-R.	Ph.D.	Civil & Env. Eng.	2004
42. Remnek, A.D	M.S.	Civil and Env. Eng	2003
43. Schwarzkopf, T.	Ph.D	Soil and Crop Sciences	2003
44. Boomer, G.	Ph.D.	Natural Resources	2002
45. Burns, W.M.	Ph.D.	Geological Sciences	2002
46. Cerucci, M	Ph.D.	Civil and Env. Eng	2002
47. Colman, J.	M.S.	Natural Resources	2002
48. Hsu, C.	M.S.	Entomology	2002
49. Klumb, R.	Ph.D.	Natural Resources	2002
50. Ma, J.	M.S.	Agricultural and Biological Eng	2002
51. Ma, J.	Ph.D.	Biological & Env. Eng	2005
52. Slothower, R.	Ph.D.	Natural Resources	2002
53. Woodbury, P.	Ph.D.	Environmental Toxicology	2002
54. Al-Wardy, M.	Ph.D	Soil and Crop Sciences	2001
55. Cantea, V.	MPS	Natural Resources	2001
56. Chang, H.	Ph.D.	City and Regional Planning	2001
57. Giasson, E.	Ph.D	Soil and Crop Sciences	2001
58. Hames, R.S.	Ph.D	Ecology and Evolutionary Biology	2001
59. Wittosch, M.	M.S	City and Regional Planning	2001
60. Yang, Yizhao	M.S.	City and Regional Planning	2001
61. Halasz, S.	M.S.	Horticulture	2000
62. Russell-Anelli, J.	Ph.D.	Soil, Crop, and Atm Sciences	2000
63. Tsai, F.-A.	Ph.D.	Civil and Environmental Eng	2000
64. Goforth, R.	Ph.D.	Natural Resources	1999
65. Mikhailova, Y.	Ph.D.	Soil, Crop, and Atm Sciences	1999
66. Magarey, R.	Ph.D.	Plant Pathology	1999
67. Morreale, S.J.	Ph.D.	Zoology	1999
68. Corona, A.	M.S.	Soil, Crop, and Atm Sciences	1998
69. Ford, G.	Ph.D.	Plant Breeding	1998
70. Wilson, C.	M.S.	Natural Resources	1998
71. Weber, J.	M.S.	Natural Resources	1997
72. Tsai, Fu-An.	M.S.	Civil and Environmental Eng	1996
73. Wairimu, S.	Ph.D.	Natural Resources	1996
74. Jimenez, A.	M.P.S.	International Agriculture	1995
75. Laba, M.	M.S.	Soil, Crop, and Atm Sciences	1995
76. Gilbertson, D.P.	M.L.A.	Landscape Architecture	1993
77. LaGro, J.A.	Ph.D.	Natural Resources	1991
78. Landre, P.T.	M.S.	Natural Resources	1991

79. Selby, D.A.	M.L.A.	Landscape Architecture	1991
80. Petach, M.	M.S.	Soil, Crop, and Atm Sciences	1989
81. Asfaw, N.	M.S.	Soil, Crop, and Atm Sciences	1988

PROFESSIONAL SOCIETIES
American Society for Photogrammetry and Remote Sensing (ASPRS)
International Union of Soil Sciences (IUSS)
Soil Science Society of America (SSSA)
Soil and Water Conservation Society (SWCS)

PROFESSIONAL SOCIETY SERVICE
National Immediate Past President, ASPRS ('14 – '15)
National President, ASPRS ('13 – '14)
National President-Elect, ASPRS ('12 – '13)
National Vice President, ASPRS ('11 – '12)
National Director, Central New York Region, ASPRS (1999-2002).

PUBLICATIONS & CREATIVE WORKS

NUMBER OF PUBLICATIONS	**TOTAL**	**Last 5 years**
1. Refereed journal articles	**58**	**10**
2. Technical articles, books, reports	**31**	**5**
3. Abstracts, presentations, posters	**105**	**n/a***
4. Extension publications	**8**	**0**
5. Trade publications	**1**	**0**
6. Other publications & creative works	**3**	**0**

* ceased listing abstracts, presentations, and posters in 2008/*sdd.*

1. Refereed journal articles

Smith. S.D., M. Laba, P.J. Sullivan, and **S.D. DeGloria**. Modeling residential growth and potential habitat vulnerability in the Hudson River Valley, New York, USA. *Landscape Ecology* (submitted).

Xiao, R., Z. Zhang, D. Jiang, **S. DeGloria**, S. Su, and J. Wu. Soil landscape pattern changes in response to rural anthropogenic activity across Tiaoxi watershed, China. (Submitted).

Thinley, P., S. Morreale, P. Curtis, J. Lassoie, **S. DeGloria**, T. Dorji, L. Leki, and S. Phuntsho. Estimating wild tiger abundance and density in an upper Himalayan region of Bhutan using camera traps and a spatially-explicit capture-recapture model. *Wildlife Research* (Submitted).

Hively, W.D., H.M. van Es, R.R. Schindelbeck, B.N. Moebius, D. Grantham, T. Owiyo, A.V. Bilgili, W.D. Philpot, and **S.D. DeGloria**. Hyperspectral analysis of long-term tillage effects on soil reflectance, nutrition, and aggregate stability. *Soil & Tillage Research* (In revision).

Liao, C., P.E. Clark, and **S.D. DeGloria.** 2018. Bush encroachment dynamics and rangeland conservation implications in the Horn of Africa *Ecology and Evolution* 2018;00:1–10. https://doi.org/10.1002/ece3.4621

Liao, C., P.E. Clark, **S.D. DeGloria**, and M. Shibia. 2018. Spatio-temporal dynamics of cattle behavior and resource selection patterns on east African rangelands: Evidence from GPS-tracking. *Int. J. Geographical Information Systems* 32(7):1523-1540. http://www.tandfonline.com/doi/full/10.1080/13658816.2018.1424856

Liao, C., P.E. Clark, **S.D. DeGloria**, and C.B. Barrett. 2017. Complexity in the spatial utilization of rangelands: pastoral mobility in the Horn of Africa. *Applied Geography* 86:208 – 219.

Long, E.A., Q.M. Ketterings, D. Russell, F. Vermeylen, and **S.D. DeGloria**. 2016. Assessment of yield monitoring equipment for dry matter and yield of corn silage and alfalfa/grass. *Precision Agriculture* 17 (1). DOI 10.1007/s11119-016-9436-y.

Wightman, J.L., Z.U. Ahmed, T.A. Volk, P.J. Castellano, C.J. Peters, **S.D. DeGloria**, J.M. Duxbury, and P.B. Woodbury. 2015. Assessing sustainable bioenergy feedstock production potential by integrated geospatial analysis of land use and land quality. *BioEnergy Research* 8(4):1671-1680.

Baumflek, M., **S.D. DeGloria**, and K.A. Kassam. 2015. Habitat modeling for health sovereignty: Increasing indigenous access to medicinal plants in northern Maine, USA. *Applied Geography* 56:83-94.

Gallagher, E.J., K.W. Mudge, M.P. Pritts, and **S.D. DeGloria**. 2014. Growth and development of 'Illini Hardy' blackberry (*Rubus* subgenus *Eubatus* Focke) under shaded systems. *Agroforestry Systems* http://dx.doi.org/10.1007/s10457-014-9738-x

Zhi, J., C. Jing, S. Lin, C. Zhang, Q. Liu, **S. D. DeGloria**, and J. Wu. 2014. Estimating soil organic carbon stocks and spatial patterns with statistical and GIS-based methods. *PLOS ONE* 9(5):8p. doi:10.1371/journal.pone.0097757.g001

Cheng, X., S.B. Shaw, R.D. Marjerison, C.D.Yearick, **S.D. DeGloria**, and M.T. Walter. 2014. Improving risk estimates of runoff producing areas: Formulating variable source areas as a bivariate process. *J. Environ. Management* 137:146-156.

DeGloria, S.D., D.E. Beaudette, J.R. Irons, Z. Libohova, P.E. O'Neill, P.R. Owens, P.J. Schoeneberger, L.T. West, and D.A. Wysocki. 2014. Emergent imaging and geospatial technologies for soil investigations. *Photogrammetric Eng. & Remote Sensing* 80:289-294.

Gatere, L., J. Lehmann, **S. DeGloria**, P. Hobbs, R. Delve, and A. Travis. 2013. One size does not fit all: Conservation farming success in Africa more dependent on management than on location. *Agriculture, Ecosystems and Environment* 179:200-207.

Liu, S., L. Deng, Z. Qinghe, **S.D. DeGloria**, and S. Dong. 2011. Effects of road network on vegetation pattern in Xishuangbanna, Yunnan Province, Southwest China. *Transport & Env.* 16:591-594.

Ahmed, Z., G.M. Panaullah, **S.D. DeGloria**, and J.M. Duxbury. 2011. Factors affecting paddy soil arsenic concentration in Bangladesh: prediction and uncertainty of geostatistical risk mapping. *Science of the Total Environment* 412-413:324-335.

Wu, C., J. Wu, Y. Luo, H. Zhang, Y. Teng, and **S.D. DeGloria**. 2011. Spatial interpolation of severely skewed data with several peak values by the approach integrating kriging and triangular irregular network interpolation. *Environ Earth Sci* 63:1093-1103.

Schwarzkopf, T., S.J. Riha, T.J. Fahey, and **S.D. DeGloria**. 2011. Are cloud forest tree structure and environment related in the Venezuelan Andes? *Austral Ecology* 36:280-289.

Wei, F., S. Liu, **S.D. DeGloria**, S. Dong, and R. Beazley. 2010. Characterizing the "fragmentation–barrier" effect of road networks on landscape connectivity: A case study in Xishuangbanna, Southwest China. *Landscape and Urban Planning* 95:122-129.

Neafsey, E.J., **S.D. DeGloria**, M.W. Havens, W.D. Philpot, and P.J. Sullivan. 2010. Comparing physical and chemical soil properties measurement: CNAL vs. NSSC. *Soil Survey Horizons* 51:22-25.

Su, S., X. Chen, **S.D. DeGloria**, and J. Wu. 2010. Integrative fuzzy set pair model for land ecological security assessment: A case study of Xiaolangdi Reservoir Region, China. *Stoch. Env. Res. & Risk Assessment* 24:639-647.

Wu, C., J. Wu, Y. Luo, L. Zhang, and **S.D. DeGloria**. 2009. Spatial estimation of soil total nitrogen using co-kriging with predicted soil organic matter content. *Soil Sci. Soc. Am. J.* 73:1676-1681.

Wu, C., J. Wu, Y. Luo, L. Zhang, and **S.D. DeGloria**. 2009. Spatial prediction of soil organic matter content using co-kriging with remotely sensed data. *Soil Sci. Soc. Am J.* 73:1202-1208.

Yang, M, S. Liu, Z. Yang, T. Sun, **S.D. DeGloria**, and K. Holt. 2009. Effect on soil properties of conversion of Yellow River delta ecosystems. *Wetlands* 29:1014-1022.

Sherman R.E., P.H. Martin, T.J. Fahey, and **S.D. DeGloria**. 2008. Fire and vegetation dynamics in high elevation neotropical montane forests of the Dominican Republic. *Ambio* 37:535-541.

Mehta, V.K., P.J. Sullivan, M.T. Walter, J. Krishnaswamy, and **S.D. DeGloria**. 2008. Ecosystem impacts of disturbance in a dry tropical forest in southern India. *Ecohydrology* 1:149-160.

Mehta, V.K., P.J. Sullivan, M.T. Walter, J. Krishnaswamy, and **S.D. DeGloria**. 2008. Impacts of disturbance on soil properties in a dry tropical forest in southern India. *Ecohydrology* 1:161-175.

Menete M.Z.L., H.M. van Es, R.M.L. Brito, **S.D. DeGloria,** and S. Famba. 2008. Evaluation of system of rice intensification (SRI) component practices and their synergies on salt-affected soils. *Field Crops Research* 109:34-44.

Post, C.J., **S.D. DeGloria**, J.H. Cherney, and E.A.. Mikhailova. 2007. Spectral measurements of alfalfa/grass fields related to forage properties and species composition. *J. Plant Nutrition* 30:1778-1789.

Lembo, A.J. Jr., L.P. Wagenet, T. Schusler, and **S.D. DeGloria**. 2007. Creating affordable internet map server applications for regional scale applications. *J. Environmental Management* 85:1120-1131.

Ross, Z, J.D. Duxbury, D.N.R. Paul, and **S.D. DeGloria**. 2006. Potential for Arsenic contamination of rice in Bangladesh: spatial analysis and mapping of high risk areas. *Int. J. Risk Assessment and Management* 6 (4-6):298-315.

Cantea, V ., V. Stegarescu, V. Zagaevschi, P. Prunici, and **S. DeGloria**. 2005. Ariile Ecologic Senzitive - zone prioritare in managementul de mediu [Environmentally Sensitive Areas priority zones in environmental management]. *Mediul Ambiant* , 6:13-19 (In Romanian).

Pfeffer, M.J., J.W. Schelhas, **S.D. DeGloria**, and J. Gomez. 2005. Population, conservation, and land use change in Honduras. *Agriculture, Ecosystems and Environment* 110:14-28.

Ma, J., N.R. Scott, **S.D.DeGloria**, and A.J. Lembo, Jr. 2005. Siting analysis of farm-based centralized anaerobic digester systems for distributed generation using GIS. *Biomass & Bioenergy* 28:591-600.

Giasson, E., R.B. Bryant, and **S.D. DeGloria**. 2002. GIS-based spatial indices for identification of potential phosphorus export at watershed scale. *J. Soil and Water Conservation* 57(6):373-381.

Laba, M, S. Gregory, J. Braden, D. Ogurcak, E. Hill, E. Fegraus, J. Fiore, and **S.D. DeGloria**. 2002. Conventional and fuzzy accuracy assessment of the New York Gap Analysis Project land cover map. *Remote Sensing of Environment* 81:1-14.

Mikhailova, E.A., R.B. Bryant, **S.D. DeGloria**, C.J. Post, and I.I. Vassenev. 2000. Modeling soil organic matter dynamics after conversion of native grassland to long-term continuous fallow using the CENTURY model. *Ecological Modeling* 132:247-257.

Joerger, A.J., **S.D. DeGloria**, and M.A. Noden. 1999. Applying geographic information systems: siting of coastal hotels in Costa Rica. *Cornell Hotel and Restaurant Administration Quarterly* 40(4):48-59.

Kuo, W-L., T. S. Steenhuis, C.E. McCulloch, C.L. Mohler, D. Weinstein, **S. DeGloria**, and D. Swaney. 1999. Effect of grid size on runoff and soil moisture using a variable-source-area hydrology model and geographic information system. *Water Resources Research* 35(11):3419-3428.

Riley, S.J., **S.D. DeGloria**, and R.A. Elliot. 1999. A terrain ruggedness index that quantifies topographic heterogeneity. *Intermountain Journal of Sciences* 5:23-27.

Laba, M., S.D.Smith, **S.D. DeGloria**. 1997. Landsat-based land cover mapping in the Lower Yuna River watershed in the Dominican Republic. *Int. J. Remote Sensing 18:3011-3025.*

Bleecker, M., **S.D. DeGloria**, J.L. Hutson, R.B. Bryant, and R.J. Wagenet. 1995. Mapping pesticide leaching potential with integrated environmental databases and simulation models. *J. Soil & Water Conservation* 50(4):388-394.

Lynn, H., C. Mohler, **S.D. DeGloria** and C. McCulloch. 1995. Error assessment in decision-tree models applied to vegetation mapping. *Landscape Ecology* 10(6):323-335.

Griffith, D.A., **S.D. DeGloria** and L. Herrington. 1994. Characterizing geographic information and analysis needs in New York State: An overview and assessment. *Cartography and GIS* 21:69-80.

DeGloria, S.D. 1993. Visualizing soil behavior. *Geoderma* 60:41-55.

DeGloria, S.D. (ed.) 1993. Advanced methods for mapping and visualizing environmental data. Special Issue. *Int. J. Geographical Information Systems* 7:103-105.

Silva, J.R.C., **S.D. DeGloria**, W.R. Philipson, and R.J. McNeil. 1993. Estudo da mundanca de uso da terra atraves de um sistema analise georreferenciada. *R. Bras.Ci.Solo, Campinas* 17:451-457.

LaGro, Jr., J.A. and **S.D. DeGloria**. 1992. Land use dynamics within an urbanizing non-metropolitan county in New York State. *Landscape Ecology* 7:275-289.

Long, D.S., **S.D. DeGloria** and J.M. Galbraith. 1991. Use of the global positioning system in soil survey. *J. Soil & Water Conservation* 46:293-297.

Petach, M.C., R.J. Wagenet, and **S.D. DeGloria**. 1991. Regional water flow and pesticide leaching using simulations with spatially distributed data. *Geoderma* 48:245-269.

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*1984 – 1986:	as Principal Investigator, private consultant, Resource Survey Institute.
1986 – present:	as Principal Investigator, professorial faculty, Cornell University.