

Samuel C. Allen, Ph.D.

P.O. Box 1018, Farmington, NM 87499 USA

Email: drsamallen@gmail.com, samallen@nmsu.edu

Mobile: 505-427-9169

OVERVIEW

Scientist/Educator with background in public relations, extension, forestry, and sustainable agriculture.

EDUCATION

	YEAR
Ph.D., Forest Resources and Conservation (Agroforestry), University of Florida, Gainesville, FL	2003
Graduate studies, Agroforestry/Social Forestry, University of the Philippines at Los Baños, Laguna, Philippines (through Rotary Ambassadorial Scholars Program)	1997
M.S., Agricultural and Extension Education, Mississippi State University, Starkville, MS	1996
B.A., Communication (Comm. Management), Mississippi State University, Starkville, MS	1989

PROFESSIONAL DEVELOPMENT

Web Content Management Training, New Mexico State University, Farmington, NM	2014
Principal Investigator (PI) Certification, New Mexico State University, Farmington, NM	2013
Pesticide Applicators Workshop, New Mexico State University, Farmington, NM	2013
Efficient Irrigation Technology Workshop, La Plata Electric Association, Durango, CO	2011
Effective Teaching Workshops, Florida Association of Christian Colleges and Schools, Orlando, FL	2008
Effective Teaching Workshops, Association of Christian Schools International, Orlando, FL	2007

PROFESSIONAL MEMBERSHIPS

Association for Communication Excellence in Agriculture, Natural Resources, and Life and Human Sciences (ACE) (professional ag extension society)	2013-present
Society of American Foresters (SAF)	2002-present
SAF Agroforestry Working Group	2014-present
Arbor Day Foundation (ADF)	2012-present
Gamma Sigma Delta (GSD) Honor Society of Agriculture	1998-present
Xi Sigma Pi (XSP) National Forestry Honor Society	2002-present

FELLOWSHIPS, ASSISTANTSHIPS AND SCHOLARSHIPS

Research Fellowship, Agricultural microbiology, awarded by Universiti Sains Malaysia (University of Science Malaysia), Penang, Malaysia	2009-2010
Research Fellowship, Agroforestry, awarded by University of Florida, Gainesville, FL	2003-2005
Graduate Research Grant for University of Florida-Milton, awarded by USDA-SARE	2001-2002
Graduate Assistantship, School of Forest Resources and Conservation, University of Florida	1999-2002
Ambassadorial Scholarship, for study at University of the Philippines at Los Baños, awarded by the Rotary Foundation of Rotary International	1996-1997
Graduate Assistantship, Agricultural & Extension Education, Mississippi State University	1994-1995
MSU Academic Scholarship, Mississippi State University, Starkville, MS	1985-1989
Stephen Thomas Jones Memorial Scholarship, for study at an institution of higher learning	1985

COMMUNITY AND PROFESSIONAL INVOLVEMENT

Volunteer, Four Corners Crop Hunger Walk, Farmington, NM	2012-present
--	--------------

Peer Reviewer for journals: <i>Agroforestry Systems</i> , <i>Geoderma</i> , <i>Invertebrate Biology</i> , and <i>World Journal of Applied Sciences</i>	2010-present
Editor for manuscripts successfully published in: <i>American Journal of Applied Sciences</i> , <i>Aquaculture Research</i> , <i>Biotechnology</i> , <i>Ekoloji</i> , <i>Journal of Food Science and Technology</i> , <i>Journal of Horticulture and Forestry</i> , <i>Soil Science Society of America Journal</i>	2006-present
Honoree, NMSU Food Pantry, for crafting its official new name, 'The Aggie Cupboard'	2012
Band guitarist/Vocalist, First Presbyterian Church, Farmington, NM	2011-present
English tutor, International student population, Penang Island, Malaysia	2010
Member, Universiti Sains Malaysia Fencing Club / 2 nd Runner Up, Penang Championship	2010
Volunteer, Keep America Beautiful, Biscayne Bay Cleanup, Gainesville Current Problems	2003-2005

COMPUTER AND TECHNICAL EXPERIENCE

Office: MS Word, Excel, PowerPoint; Adobe Photoshop; Statistical software (CoHort, SAS, SPSS)

Lab: spectrophotometry, gas chromatography, microbiology lab techniques, soil nutrient analyses

Field: GPS unit, light meter, chlorophyll meter, clinometer, irrigation control unit, farm tractor

PROFESSIONAL EXPERIENCE

1. Agricultural Research Scientist 3/2011-present

New Mexico State University Agricultural Science Center, Farmington, New Mexico

Serve as research specialist for forestry trials at a 250-acre university experiment station located on a Native American reservation. Provide year-round management of ten acres of hybrid poplars (*Populus* spp.) for provenance testing and introductions for windbreaks, industrial fiber uses and biofuel production in a semi-arid region. Maintain databases for statistical analyses and reporting. Provide physical and analytical support to research projects on agronomic crops (corn, wheat, alfalfa, canola) and horticultural crops (wine grapes, hops, medicinal herbs). Provide direction to staff and interns on project tasks. Write and edit reports and manuscripts, and assist with proposals and grant applications. Give tours and presentations to visitors and represent the center at community and professional venues.

2. Postdoctoral Research Fellow 11/2009-11/2010

School of Biological Sciences, Universiti Sains Malaysia, Penang, Malaysia

Served as researcher in agricultural microbiology for a major Malaysian university. Examined effects of beneficial soil bacteria on growth and N-fixing ability of *Mucuna bracteata*, a legume cover crop used in oil palm and rubber plantations. Cultured rhizobial bacteria in a sterile lab setting for preparation as inocula, and managed inoculated plants in a greenhouse. Supervised intern and students on project tasks. Edited various documents for faculty and students. Built positive relationships with student community.

3. English, Science and Math Teacher

Redland Christian Academy, Homestead, Florida

8/2007-8/2009

Taught English grammar, language arts and effective communication skills to high school students in grades 9-12 plus Honors courses. Taught students about world literature and poetry from a geographical and historical perspective. As a Science instructor, taught middle school students about the natural world of trees, plants, animals, geology, chemistry, space, health and first aid. During summer school, taught English and math to middle schoolers. Also initiated a workshop for SAT Test preparation. Counseled youth with academic and personal problems, and gave music lessons to classes.

4. Education Outreach Coordinator

7/2006-6/2007

Fairchild Challenge, Fairchild Tropical Botanic Garden, Coral Gables, Florida

Conducted environmentally-themed activities and events for middle school youth through the Fairchild Challenge environmental education program. Coordinated event logistics and compiled reports to track program progress. Coordinated the Native Plants of South Florida Art Workshop, which exposed over 150 students to the diversity of native flora via art workshops and other interpretive activities. Wrote a successful grant with the Miami-Dade Department of Environmental Resources Management (\$56,992).

5. Postdoctoral Scientist, and Graduate Assistant

8/1999-9/2005

School of Forest Resources & Conservation, University of Florida, Gainesville, Florida

Carried out writing, research and extension services for the SFRC, the Center for Subtropical Agroforestry, and the UF Soil and Water Science Department, with a focus on environmental protection using agroforestry. Studied silviculture, forest health, agroforestry, tropical agriculture, soil and water science, and related environmental subjects. Conducted research on nutrient and water status in alley cropping systems using lysimeters, N15 isotopic tracer, and plant and soil analyses. Studied nitrogen and phosphorus status in silvopastoral systems using soil analyses and GPS measurements. Research included work with cotton, peanut, forages, and pecan and pine trees. Operated auto-analyzer equipment for soil and groundwater nutrient analyses in a wetland biogeochemistry lab. Wrote or co-authored scientific articles, research reports, extension materials and abstracts. Edited 700+ abstracts and co-organized a session for the 1st World Congress of Agroforestry. Gave presentations for conferences, symposia and field days. Successfully wrote a grant awarded by USDA-SARE program (\$10,000).

6. Rotary Ambassadorial Scholar

11/1996-10/1997

School of Forestry, University of the Philippines at Los Baños, Laguna, Philippines

Served as goodwill student ambassador of the Rotary Foundation to the Philippines. Studied courses in silviculture, agroforestry, nursery techniques and sociological factors influencing forest use. Participated in extension survey work and trained with staff of a Mindanao-based NGO. Networked with Rotarians and community members in the US and Philippines, and wrote monthly newsletters.

7. Graduate Assistant

Agricultural and Extension Education, Mississippi State University, Starkville, MS

8/1994-12/1995

Studied agricultural and extension education techniques for use in formal and non-formal settings. Served as a guest lecturer in two agricultural education courses. Conducted research on training needs of agricultural development workers, through ECHO (Educational Concerns for Hunger Organization), an NGO in south Florida. Wrote news items as a writer for the Mississippi Cooperative Extension Service.

8. Research Support Staff**Summers:**

a) Entomology and Plant Pathology Department, Mississippi State University, Starkville, MS

1994, 1996

b) Plant and Soil Sciences Department, Mississippi State University, Starkville, MS

1993

Provided field and lab support to departmental research projects examining the control of invasive weeds and insects in agronomic crops. Carried out lab support work such as data checking and specimen preparation. Performed field research support work such as weed control and scouting for weeds and insects in test plots at main campus farm and other university research sites.

SELECTED PUBLICATIONS

- Allen, S.C.**, M.K. O'Neill, K.A. Lombard and R.F. Heyduck. 2016. Adaptability and productivity of hybrid poplars in a semi-arid climate. December 2016 Newsletter, International Forestry Working Group (B3), Society of American Foresters.
- O'Neill, M.K., **S.C. Allen**, R.F. Heyduck, K.A. Lombard, D. Smeal and R.N. Arnold. 2014. Hybrid poplar (*Populus* spp.) adaptation to a semi-arid region: Results from Northwest New Mexico (2002-2011). *Agroforestry Systems* 88: 387-396.
- Smeal, D., M.K. O'Neill, C.K. Owen, M.M. West, **S.C. Allen** and R.N. Arnold. 2014. Forty-Three Years (1969-2011) of Climatological Data: NMSU's Agricultural Science Center at Farmington, New Mexico. Bulletin 806. Agricultural Experiment Station, New Mexico State University.
- Smeal, D., M. O'Neill, K. Lombard, **S. Allen** and R. Arnold. 2013. Drip irrigation from rainwater catchment vessels: Emitter performance at substandard pressure. April 2013. Book of Abstracts, Sustainable Water Conference, Nashville, TN.
- Lombard, K.A., B. Maier, F.J. Thomas, M.K. O'Neill, **S. Allen** and R. Heyduck. 2013. Performance of wine grape cultivars in a high desert region of Northwest New Mexico: 2010-2012. *HortTechnology* 23(5): 699-709.
- Arnold, R.N., M.K. O'Neill and **S. Allen**. 2012. Broadleaf weed control in grain sorghum. *Western Society of Weed Science Research Report*. p.57.
- Allen, S.**, S. Salwani and H.G. Amir. 2010. Potential of kaolin clay and rice husk as tailored rhizobial inoculant carriers. *BioBulletin* 14(2): 20-23. Universiti Sains Malaysia, Penang, Malaysia.
- Jose, S., **S.C. Allen** and P.K.R. Nair. 2007. Tree-crop interactions: Lessons from temperate alley-cropping systems. Chapter 2 in *Ecological Basis of Agroforestry*, CRC Press, Boca Raton, FL.
- Allen, S.C.**, V.D. Nair, D.A. Graetz, S. Jose and P.K.R. Nair. 2006. Phosphorus loss from organic versus inorganic fertilizers used in alleycropping on a Florida Ultisol. *Agriculture, Ecosystems & Environment* 117(4): 290-298.
- Allen, S.C.**, S. Jose, P.K.R. Nair, B.J. Brecke, V.D. Nair, D.A. Graetz and C.L. Ramsey. 2005. Nitrogen mineralization in a pecan (*Carya illinoensis* K. Koch)-cotton (*Gossypium hirsutum* L.) alley cropping system in the southern United States. *Biology and Fertility of Soils* 41(1): 28-37.
- Michel, G., V. Nair, P.K.R. Nair and **S. Allen**. 2005. Tree integration on pastureland: Role of silvopasture in reducing nutrient pollution from pasturelands in Florida. Abstract, Ninth North American Agroforestry Conference, June 2005, Rochester, MN.
- Nair, P.K.R., **S.C. Allen** and M.E. Bannister. 2005. Agroforestry Today: An analysis of the 750 papers presented to the 1st World Congress of Agroforestry, 2004. *Journal of Forestry* 103(8): 417-421.
- Allen, S.C.**, S. Jose, P.K.R. Nair, B.J. Brecke and C.L. Ramsey. 2004. Competition for 15N-labeled fertilizer in a pecan (*Carya illinoensis* K. Koch)-cotton (*Gossypium hirsutum* L.) alley cropping system in the southern United States. *Plant and Soil* 263: 151-164.
- Allen, S.C.**, S. Jose, P.K.R. Nair, B.J. Brecke, P. Nkedi-Kizza and C.L. Ramsey. 2004. Safety-net role of tree roots: Evidence from a pecan (*Carya illinoensis* K. Koch)-cotton (*Gossypium hirsutum* L.) alley cropping system in the southern United States. *Forest Ecology and Management* 192: 395-407.
- Nair, V.D., **S.C. Allen**, R.S. Kalmbacher and D.A. Graetz. 2004. Potential of silvopastoral practices to reduce nutrient loss from Florida soils. Research Brief 04-05. Soil and Water Science Department, University of Florida, Gainesville, FL.
- Workman, S.W. and **S.C. Allen**. 2004. The practice and potential of agroforestry in the southeastern United States. EDIS Publication CIR 1446. Institute of Food and Agricultural Sciences (IFAS), University of Florida, Gainesville, FL.
- Workman, S.W., **S.C. Allen** and S. Jose. 2003. Alley-cropping combinations for the southeastern USA. EDIS Publication FOR 106. IFAS, University of Florida, Gainesville, FL.
- Allen, S.C.** and M.E. Newman. 1997. Inservice training needs in appropriate technology as perceived by international agricultural development workers. 1997 Conference Papers, Association for International Agricultural and Extension Education, 13th Annual Conference, Arlington, VA.

Additional information and references gladly furnished upon request.

For more information, please see: https://www.researchgate.net/profile/Samuel_Allen2