

Michelle Samuel-Foo, Ph.D.

Address:

Alabama State University,
Department of Biological Sciences

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Core competencies encompass science policy, grantsmanship and administration, budgetary affairs, curriculum development, classroom leadership, mentoring, human resources and facility management. Politically astute decision-maker with expertise in interacting effectively and partnering with university/college internal and external constituencies, private industry and relevant stakeholders.

Talented background in innovative program development and coordination, implementation, and oversight. Proven track record of leadership, conveying expectations; negotiating viable courses of action; bringing energy, enthusiasm, and passion to empower others, and achieving significant results.

EDUCATION

The University of Georgia, Athens GA

2008 Ph.D., Entomology

2003 M.S., Agronomy

Brewton-Parker College, Mt Vernon, GA

2000 B.A., Biology (Summa cum laude)

2020-2021 President Elect- South Eastern Branch Entomological Society of America

2013-2015 Past President, International Association of Black Entomologists

ACADEMIC EXPERIENCE

ALABAMA STATE UNIVERSITY –Montgomery, Alabama

Assistant Professor of Biology (January 2018 - Present)

Appointment

75% teaching 25% research and extension

Major responsibilities:

Imparted quality instruction to undergraduate and graduate students in the Department of Biological Sciences, courses were open to both Biology majors and non- majors alike. Designed course materials, and formulated activities to assist students in developing required knowledge and skills. Conducted seminars/workshops throughout the academic semester to enhance the learning experience. Established and oversaw the first entomology research lab within the department, which provided sundry opportunities for student experiential learning, research and mentoring. Developed an urban teaching garden at the University through grants and managed with student involvement. Appointed *Activity Director*, responsible for managing the Title III Industrial Hemp Insect Management research program on campus. Developed and managed 2 high tunnel high tunnels on campus and oversaw and coordinated the establishment of a double bay, 7000 sq ft, modern day heated, glass greenhouse, the first one of its kind on the ASU campus.

UNIVERSITY OF FLORIDA-Gainesville, Florida

Associate Research Scientist/IR-4 Regional Field Coordinator (January 2009- December 2017)
(*non-tenure track faculty*)

Appointment: 75% research, 15% extension, 10 % teaching

Program Overview and Responsibilities:

The Southern Region IR-4 Program supports the National IR-4 mission of “facilitating registration of sustainable pest management technology for specialty crops and minor uses.” This is accomplished through three strategic programs:

- **Food Use Program:** Obtains and maintains regulatory clearances of effective crop protection agents for high value, specialty food crops and for minor uses on major food crops with special emphasis on lower risk chemicals and uses that are compatible with Integrated Pest Management programs.
- **Ornamental Horticulture Program:** Supports research on crop protection products that will expand their uses on ornamental crops (nursery, floral, turf, and other non-food crop systems) to allow management of new and important pest species.
- **Biopesticide Program:** Supports research to enhance the development and registration of biopesticides for use in food and non-food pest management programs, and new and reduced risk pesticides for use in pest management systems and in public health situation

At the University of Florida, was responsible for leading the IR-4 minor use pesticide program that had jurisdiction in 13 southern States (FL, AL, GA, NC, SC, AR, MS, TX, TN, LA, OK, KY, VA) and the territory of Puerto Rico. This included providing scientifically sound representation for the needs of stakeholders on a wide variety of issues affecting specialty crops including invasive species, pests, diseases and weeds.

UNIVERSITY OF GEORGIA- Athens, Georgia

Graduate Research and Teaching Assistant/Instructor (July 2001- December 2008)

Departments of Entomology, Biological Sciences and Crop and Soil Science
University of Georgia, Athens GA

Brief Summary of Responsibilities:

Worked as part of a multidisciplinary research team in soybean/wheat breeding and crop improvement. Performed a variety of duties including experimental design and implementation, greenhouse assays, field trials, scouting, assessing pest damage in fields and molecular laboratory experiments. Also served as an instructor or graduate teaching assistant for general biology laboratory practicums and entomology undergrad and graduate lecture and labs. Classes taught include Biology for majors and non majors, Integrated Pest Management, Pesticides and Transgenic Crops, Insect Natural History and Insect Pest Management.

COURSES TAUGHT AT GRADUATE AND UNDERGRADUATE LEVELS

- BIO 127 General Biology I
- BIO 128 General Biology II
- BIO 305 Population Genetics and Evolution
- BIO 505 Vascular Plants
- ENY 6200/4200 Tropical Entomology in Honduras
- PMA 4570/6228 Field Techniques in IPM
- ENY 3563/ENY 5566 Tropical Entomology
- HOS 5555 Tropical Fruit Production and Research
- ALS 6931 Plant Medicine Program Seminar Series
- IPM 5305 Principles of Pesticides
- BIOL 1107 L Principles of Biology I
- BIOL 1103 L Concepts in Biology
- ENTO 3140 Insect Natural History in Costa Rica (study abroad)
- ENTO 4250/6250 L Pesticides and Transgenic Crops
- ENTO 4740/6740 L Integrated Pest Management
- ENTO 3740 L Insect Pest Management

GRANTSMANSHIP

- 2018-2019 HGBI-15-II Title III activity, Industrial Hemp Insect Research Program, Alabama State University (\$596,023) Activity Director: **Michelle Samuel-Foo**
- 2018 USDA Specialty Crop Block Grant-Alabama (\$25,000); *Establishment of a Demonstrative Teaching Garden at Alabama State University*. PI: **Michelle Samuel-Foo**
- 2018 Mind South RC&D Council Grant (\$6500); *Support for establishing an entomology lab at Alabama State University*. PI: **Michelle Samuel-Foo**
- 2009-2017 USDA/NIFA Interregional Research Project #4, *Minor Crop Pest Management (IR-4) Southern Region* (~\$2.1 million dollars annually). PI's: Maurice Marshall, **Michelle Samuel-Foo** and Wlodzimierz Borejsza-Wysocki, University of Florida, IFAS-FETL
- 2013-2014 IR-4 Biopesticide and Organic Support competitive Grant. *Evaluation of commercial formulations of entomopathogenic fungi to manage the redbay ambrosia beetle, vector of laurel wilt, a disease affecting avocados in Florida*. (\$23, 364) PIs J.E. Pena, Daniel Carrillo and **Michelle Samuel-Foo**

PUBLICATIONS, TECHNICAL REPORTS

Smith, H.A., C. A. Nagle, M. Samuel-Foo and G. E. Vallad. Managing *Macrosteles near severini* (Auchenorrhyncha: Cicadellidae) and *Myzus persicae* (Hemiptera: Aphididae) in Florida watercress. *Florida Entomologist*. Vol 99, No. 4: 624-628. 2016

Razze, J. M., O.E. Liburd, G. S. Nuessly and M.Samuel-Foo. Evaluation of Bioinsecticides for Management of *Bemisia tabaci* (Hemiptera: Aleyrodidae) and the Effect on the Whitefly Predator *Delphastus catalinae* (Coleoptera: Coccinellidae) in Organic Squash. *Journal of Economic Entomology*. Aug 109 (4); 1766-71. 2016.

Riddick, E.W., M. Samuel-Foo, W. Riddick, E.W., **M. Samuel-Foo**, W. Bryan and A. Simmons. *Memoirs of Black Entomologists*. Entomological Society of America, Thomas Say Publication. 2015.

Chen, Y., R.N Story, and **M. Samuel-Foo**. Nitrogen and Phosphorus Fertilization Affect Western Flower Thrips Population Level and Injury on Susceptible and Resistant Impatiens. *Adv Crop Sci Tech* 2:145, 2014

Samuel-Foo, M. and P. Dittmar. How the IR-4 Project helps Florida Specialty Crop Growers. *Berry/Vegetable Times*. University of Florida, IFAS Extension. Summer 2014 ed, pp 6-8.

Samuel-Foo, M. K. Homa and J.H. Crane. IR-4's Effort to Combat "Laurel Wilt": A Threat to the Florida Avocado Growers. *The IR-4 Project Newsletter*. Spring 2014 Vol 45 No. 2, pp 6-7.

Samuel-Foo, M., J.N. All and H. R. Boerma. Evaluation of Pest Vulnerability of 'Benning' Soybean Value Added and Insect Resistant Near Isogenic Lines. *Journal of Economic Entomology*.06 (2): 830-836. 2013

Marble, C., C. H. Gilliam, G. R. Wehtje, and **M. Samuel-Foo**. Early Postemergence Control of Yellow Woodsorrel (*Oxalis stricta*) with Residual Herbicides. *Weed Technology*, 27(2):347-351. 2013

Robles, W., L.E. Almodovar, R. Olszack, **M. Samuel-Foo**, N. Vargas and J. Arocho. Label Revision of The Herbicide Diquat (Reglone®) on Banana as part of the IR-4 Project. *International Association of the Cooperation of Bananas and Plantains Conference Proceedings*. Sept 2013.

Samuel-Foo, M. A look at the Field Research Center at the University of Puerto Rico. Fall 2013 issue. Vol 44 No 4. pp 14-15.

Chong, J.H., G.S. Hodges and **M. Samuel-Foo**. First Record and Management of the Armored Scale, *Melanaspis deklei* Dietz & Davidson, in South Carolina. *Journal of Agricultural and Urban Entomology*. 26(2): 63-75 (April 2009).

LeRoy, B., A. Painter, H. Sheppard, L. Popiolek, **M. Samuel-Foo** and T. Andacht. 2007. Protein Expression Profiling of Normal and Neoplastic Canine Prostate and Bladder Tissue. *Veterinary and Comparative Oncology*, vol 5. No. 2, pp. 119-130.

Lance, J.K, J.N. All and **M. Samuel-Foo**. 2005. Evaluation of Selected Insecticides for Control of Corn earworm and Fall armyworm in Sweet Corn. *Arthropod Management Tests*, 2005 (30).

Lance, J. K, J.N. All, C.W. Warrington, **M. Samuel-Foo** and P.H. Jost. 2005. Evaluation of Selected Insecticides for Control of Bollworm (BW) and Tobacco Budworm (TBW) in Georgia on Cotton, 2004. *Arthropod Management Tests*, 2005 (30).

Oral Presentations:

Samuel-Foo, M. Founders Day Memorial lecture: A look at the life of Dr. Ernest Harris. Annual Meeting Entomological Society of America, Nov 2020 (planned)

Samuel-Foo, M. Redefining Success in Entomology: A look beyond traditional roles. *Invited Speaker*, International Association of Black Entomologists Symposium, Annual Meeting Entomological Society of America, Nov 2020 (planned)

J. Nixon, Baker, E., Edwards, J., Bell N., Reeves C. and **M. Samuel-Foo**. Encouraging Minority Student Engagement in Agriculture at a Non Land Grant HBCU. Alabama State University Annual Research Symposium. Montgomery AL, Mar 2020

E. Baker, Nixon, J., Bell, N., Knight, T. and **M. Samuel-Foo**. Insect Pest Profile for Industrial Hemp, a New Crop for Alabama. NIS-BKK 77th Joint Annual Meeting, Montgomery AL, March 2020 (Conference cancelled)

Khan, V.A., Currington, J.A., Shange,R., Ankumah, R., **Samuel- Foo, M.**, Sparks, E., Ellison, N. Hunter, G and J. Moore. Air and Soil Temperature Readings from Two Wiregrass Tunnel Houses Located in East Central Alabama. Professional Agricultural Workers Conference, Tuskegee University, AL, Dec 2019

Khan, V.A., Currington, J.A., Shange,R., Ankumah, R., **Samuel- Foo, M.**, Sparks, E., Ellison, N. Hunter, G and J. Moore. Evaluation of Two Varieties of Collards (*Brassica Oleracea L. Var. Acephala D.C.*) Planted in Single and Staggered Rows in a Wiregrass Tunnel House in East Central Alabama. Professional Agricultural Workers Conference, Tuskegee University, AL, Dec 2019

Marquess, J., Shange R., **Samuel-Foo, M.** Johnson, M., Khan, V.A., Currington J.E., Ankuman, R. Sparks, E., Ellison, N., Hunter H and J. Moore. Yield Response of Whatley-Loertan Sweet Potato (*Ipomoea Batatas L.*) Transplanted in Single and Double Rows at Different Dates in a Wiregrass Tunnel House. Professional Agricultural Workers Conference, Tuskegee AL, Dec 2018

Jackson, T., R. Shange, Jackson, J., **Samuel-Foo, M.**, Johnson, M., Khan, V.A. Currington, J.E., Sparks, E., Ellison, N. Hunter, G and J. Moore. The Effect of Partial Leaf harvests of Three Varieties of Collards (*Brassica Oleracea (l)/Cultivar Group Acephala*) at Three harvest Intervals When Grown in a Wiregrass Tunnel House. Professional Agricultural Workers Conference, Tuskegee AL, Dec 2018

Samuel-Foo, M. Plans to Establish a Teaching Garden at Alabama State University. Alabama State University, Montgomery AL, Sept 2018 (*invited seminar*)

Baker, E., and **M. Samuel-Foo**. Establishment of a Teaching Garden at Alabama State University. Alabama State University Annual Research Symposium. Montgomery AL, Mar 2019

Samuel-Foo, M, Cook, J., and C. Miller. Pesticide Labeling, Pesticide Formulations and Understanding Integrated Pest Management. Bahamas Pesticide Certification Training. *Invited Speaker*. Andros Bahamas, June 2018

Samuel-Foo, M., Vegetable Pest Management Symposium Moderator. SEB-ESA, Orlando Fl March 2018

Samuel-Foo, M., H.A. Smith and Babu Srinivasan. Biopesticides for whitefly control in Greenhouse tomatoes. Entomological Society of America Annual Meeting, Minneapolis, MN. November 2015

Samuel-Foo, M., H.A. Smith and Babu Srinivasan. Biopesticides for whitefly control in Greenhouse tomatoes. Entomological Society of America Annual Meeting, Minneapolis, MN. November 2015

Samuel-Foo, M. The role of IR-4 in helping to manage thrips across commodities in FL. Florida Entomological Society Annual Meeting, Ft. Myers, FL, August 2015.

Samuel-Foo, M., and H.A. Smith. Managing leafhoppers and aphids in Florida watercress. Florida Entomological Society Annual Meeting, Jupiter FL, August 2014.

Samuel-Foo, M. The IR-4 Minor Crop Pest Management Program at the University of Florida. Caribbean Council of Higher Education in Agriculture (CACHE), *Invited seminar*, Gainesville FL, July 2014.

Samuel-Foo, M., J.H. Crane and W. Robles. R-4's Efforts to Help Combat 'Laurel Wilt,' a Threat to the FL Avocado Industry. Caribbean Food Crops Society (CFCS) Meeting, St Thomas, US Virgin Islands, July 2014.

Braman, K. and **M. Samuel-Foo**. Managing foliar beetles in nursery production. South Eastern Branch-Entomological Society of America Annual Meeting, Baton Rouge, LA, March 2013.

M. Samuel-Foo: Navigating the IR-4 Regulatory process: How the Program Accomplishes its Mission of Securing Sustainable Pest Management Tools for Minor Crops. South Eastern Branch-Entomological Society of America Annual Meeting, Baton Rouge, LA, March 2013.

Braman, K. and **M. Samuel-Foo** Managing scale insects in nursery production. Georgia Entomological Society Meeting, Dawsonville, GA, April 2013.

Almodovar, L.E, W. Robles, R. Olszack, **M. Samuel-Foo** and Nelson Vargas. Registration revision of the herbicide Diquat (Reglone ®) for the cultivation of banana. Sociedad Puertorriquena de Ciencias Agrícolas, San Juan, Puerto Rico, Nov 2012.

Samuel-Foo, M. Pesticide Registrations for Specialty Crops in the US. *Invited Seminar*, CARDI, Caribbean Agricultural Research and Development Institute, St Augustine, Trinidad, WI, June 2012.

Samuel-Foo, M., and M. Marshall. Registrations of Pest Management Tools for Growers of Specialty Crops in the US. *Invited seminar*, Beijing China, August 2011.

Poster Presentations:

J. Nixon, **Samuel-Foo, M.** and K. Kesheimer. Insect Pests of Industrial Hemp. SEB-ESA, Atlanta GA 2020 (*Conference cancelled*).

J. Nixon, **Samuel-Foo, M.** and K. Kesheimer. Insect Pests of Industrial Hemp. Annual Meeting Entomological Society of America, Nov 2020.

Samuel-Foo, M. Engaging Minority Students in Entomology and Agriculture Via an Urban Teaching Garden and Social Media. Entomological Society of America Annual Meeting, St. Louis, MO Nov 2019

Samuel-Foo, M. and K. Dorschner. The IR-4 Project: helping specialty crop growers address insect pest problems by facilitating minor use pesticide registrations. Entomological Society of America Annual Meeting, Portland, OR . Nov 2014

Samuel-Foo, M. and P. Dittmar. How do Pesticides Get Registered for Specialty Crops and Minor Uses? FL Small Farms and Alternative Enterprises Conference, Kissimmee FL. July 2014.

Samuel-Foo, M., and A. Simmons. Priority Setting and Channeling “Project Clearance Request (PCRs)” through the IR-4 Southern Region Program. South Eastern Branch-Entomological Society of America Annual Meeting, Charleston, SC. March 2014.

Samuel-Foo, M. The Critical Role of IR-4 in Specialty Crop Pest Management. Entomological Society of America Annual Meeting, San Diego, CA. Dec 2010.

Samuel-Foo, M. and M.S. Robinette, April 2008: International Service Learning in Cost Rica: Insect Natural History. UGA Educational Forum for Globalization on Culture, Research, and Teaching, University of Georgia, Athens GA, (Honors for Best Poster) and December 2007: Entomological Society of America Annual Meeting, San Diego, CA

M.S. Robinette and **M. Samuel-Foo**, March 2008: International Outreach & Service Learning: Insects as Teaching Tools, Southeastern Branch Meeting of the Entomological Society of America, Jacksonville FL

Samuel-Foo M., D. Walker, J.N. All, S. Zhu and R. Boerma, March 2008: Vulnerability or Resistance Associated with Insect Defoliators in the Elite Soybean Germplasm ‘Benning.’ Southeastern Branch meeting of the Entomological Society of America, Jacksonville, FL

Samuel-Foo, M. March 2008. Angiosperms and Gymnosperms: A look at plant growth and development. *Invited seminar*, Shorter College, Department of Natural Sciences, Rome GA

Samuel-Foo M., D. Walker, J.N. All, S. Zhu and R. Boerma, March 2008. Risk Adverse Pest Management Evaluation of Soybean Defoliators in Value Added Soybean. *PhD Student oral competition*. South Eastern Branch Meeting of the Entomological Society of America, Jacksonville FL

Samuel-Foo, M. February 2008. Risk Adverse Evaluation of Insect Defoliators in Value Added Soybean Germplasm. *Invited seminar*, Applied Genetics Technology and Research Center, University of Georgia, Athens GA

Honors and Awards:

2020	Entomological Society of America, Founders Memorial Award
2020	President- elect, South Eastern Branch Entomological Society of America
2012	Achievement in Natural Sciences, International recognition by the Trinidad and Tobago Consulate General, Miami FL
2008	Outstanding PhD Student Award for Outreach and Service, Department of Entomology, University of Georgia
2008	University of Georgia Outstanding Graduate Student Teaching Award
2008	North American Colleges and Teachers of Agriculture (NACTA), Graduate Student Teaching Award
2008	University of Georgia NAACP Academic Image Award
2008	Invited participant in The University of Georgia's Future Faculty Program

Review Panels:

2019-2020	National Institute of Food and Agriculture (NIFA) Crop Protection and Pest Management review panel
2019	United States Department of Agriculture (USDA) 1890 Capacity Building grants program Panelist
2014	Southern region Integrated Pest management Center (SRIPM), Friends of IPM Awards Committee member
2010-2017	Southern region Integrated Pest management Center (SRIPM) relevance review panel
2009-2015	IR-4 Biopesticides and Organic Support Competitive Grants Committee

Professional Service:

2020	Student competition Judge, Alabama State University Annual Research Symposium.
2019	Minorities in Agriculture, Natural and related Sciences (MANNRS) Graduate Student Competition Judge
2018	International Association of Black Entomologists Students Awards committee member
2017-2018	PhD Student Paper Competition Judge, South Eastern Branch-Entomological Society of America
2014	Moderator, PhD Student Paper Competition, South Eastern Branch-Entomological Society of America
2009-2014	Leader, IR-4 Southern Region Priority Setting Process.
2013-2015	President, International Association of Black Entomologists.
2013-2020	Chair, Scholarships Awards Committee, Caribbean Food Crops Society Meeting
2014-2016	Chair, South Eastern Branch-Entomological Society of America Awards committee
2012-2013	Turf and Ornamentals symposium co-organizer, SEB –ESA Annual Meeting

2012-2013	SR IPM Regulatory Information Network member
2012-2013	Faculty Advisor, Caribbean Student Organization, University of Florida
2012-2013	Co-chair Black Entomologists Public Relations and Outreach committee
2012	Moderator, 10-minute papers, Environmental Entomology P-IE Section, ESA 2012
2011	Judge, Graduate Student 10 minute paper Competition P-IE, ESA 2011
2011-2012	University Minority Mentor Program, University of Florida
2011-2012	Entomological Society of America La Fage Student Award Judge
2010-2012	Advisory Board Member, Asian PGPR
2009-2014	Member, IR-4 Newsletter Committee
2009-2014	S-IPM Center Advisory Board committee member
2010-2011	<i>Elected Chair</i> , IR-4 Reducing Timelines Committee
2007-2008	Student Affairs Committee, SEB-ESA and GES

Professional Affiliations:

2020	National Association of Biology Teachers (NABT)
2014-2017	Florida Entomological Society
2004-2020	Entomological Society of America (ESA), South Eastern Branch Member
2004-2020	International Association of Black Entomologists (IABE)
2004-2008	Gamma Sigma Delta, North American Colleges and Teachers of Agriculture (NACTA)