

James S. Owen, Jr.
Nursery Crops Extension Specialist, Associate Professor of Horticulture
Virginia Tech College of Agriculture and Life Sciences

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<u>Career accomplishments</u>	<u>Total</u>
Awards and recognition	6
Extension publications	12
Extension presentations	92
Funding amount	\$2.7M
Graduate students	10
Grants	62
Interns / undergraduate research	19
Invited keynote presentations	8
Peer-refereed publications	28

Recent Awards

- 2017 American Society for Horticultural Science Nursery Working Group Distinguished Achievement Award
- 2017 Virginia Tech College of Agriculture and Life Sciences 2017 CALS Excellence in Applied Research Award
- 2017 American Society for Agricultural and Biological Engineers Educational Aids Blue Ribbon Award for "Understanding Soil Moisture Sensors: A Fact Sheet for Irrigation Professionals in Virginia"
- 2017 American Society for Horticultural Science Extension Division Education Materials Award for "Hydrangea Production Series" PB1840-A and PB1840-B
- 2017 Southern Region American Society for Horticultural Science Extension Communications Blue Ribbon Award for "Grozone Tracker"
- 2013 Southern Region American Society for Horticultural Science Communications Blue Ribbon Award for Extension for "Preparing Nursery Crops for the Winter in the Southeastern United States"

Education

- 2006 Ph.D. Horticultural Science (Soil Science minor), North Carolina State University
- 2002 M.Sc. Environmental Science, University of Rhode Island
- 1999 B.Sc. Plant and Soil Science, University of Kentucky

Research and Extension Interests

My integrated research and extension program addresses four interrelated horticultural production topics: (1) water management, (2) nutrient efficiency and fate, (3) agrichemical management and remediation and (4) physiochemical properties of soilless substrate, all of which are key to the success of the Green Industry in Virginia. The overarching goal of the program is enhanced management of resources in commercial nursery crop production to increase profitability while mitigating environmental impact.

Professional Appointments

2017-present, Associate Professor of Horticulture, Extension Specialist, Virginia Tech, Hampton Roads Agricultural Research and Extension Center, Virginia Beach, VA
2011-2017, Assistant Professor of Horticulture, Extension Specialist, Virginia Tech, Hampton Roads Agricultural Research and Extension Center, Virginia Beach, VA
2011-2016, Courtesy Horticulture Faculty, Oregon State University, Corvallis, OR
2006-2011, Assistant Professor of Horticulture, Extension Specialist, Oregon State University, North Willamette Research and Extension Center, Aurora, OR
2002-2006, Research Assistant, North Carolina State University, Raleigh, NC
2002, Instructor (Plant Propagation), University of Rhode Island, Kingston, RI

Professional and Honorary Societies

International Plant Propagators Society
International Society for Horticultural Science
American Society for Horticultural Science
Pi Alpha Xi Honorary Horticultural Society
Gamma Sigma Delta

<u>Career publications</u>	Corresponding <u>author</u>	<u>Co-author</u>	<u>Total</u>
Books / Book chapters	---	3	3
Conference proceedings	20	23	43
Extension publications	3	9	12
Other papers / digital content	5	2	7
Popular press articles	18	29	37
Refereed manuscripts	13	15	28
Scientific abstracts	27	20	47
Websites / Social media	2	8	10

Selected Publications (*students, corresponding author emboldened)

Mack, R.*, **J.S. Owen, Jr.**, A.X. Niemiera, and J. Latimer. 2017 Virginia nursery and greenhouse grower survey of best management practices. HortTechnology 27:386-392

Ferraro, N.*, **D. Bosch**, J. Pease, and J.S. Owen, Jr. 2017. Costs of recapturing and recycling irrigation water in container nurseries. HortScience. 52:258-263.

Majsztrik J.C., R.T. Fernandez, P.R. Fisher, D.R. Hitchcock, J. Lea-Cox, **J.S. Owen**, L.R. Oki, L. Warner, and S.A. White. 2017. Water use and treatment in nursery and greenhouse crop production: A review. Water Air Soil Pollut. 228:151 DOI 10.1007/s11270-017-3272-1

Fulcher, A., A.V. LeBude, **J. S. Owen, Jr.**, S. A. White, and R. C. Beeson. 2016. The next ten years: Strategic vision of water resources for nursery producers. HortTechnology 26:133-140.

Lynch, J.*, **L.J. Fox**, J.S. Owen, Jr., and D.J. Sample. 2015. Evaluation of commercial floating wetland mats for remediation of stormwater. Ecol. Eng. 75: 61-69.

Hoskins, T.*, **J.S. Owen, Jr.**, and A.X. Niemiera. 2014. Water movement through a pine-bark substrate during irrigation. HortScience 49: 1432-1436.

Hoskins, T.*, **J.S. Owen, Jr.**, and A.X. Niemiera. 2014. Controlled-release fertilizer placement affects the leaching pattern of nutrients from nursery containers during irrigation. HortScience 49:1341-1345.

Selected Competitive Grants (over \$2.7 million total in extramural funding)

Reported dollar amounts are for funds directly received by Dr. Owen's program.

- Gilaspy, G.E., W. H. Frame, L. Strawn, J.S. Owen, Jr., and J. Barney. 2017-2021. Securing our food: A translational experience for undergraduate students in plant sciences. USDA-NIFA Undergraduate Research and Extension Experiential Learning Fellowship.
- White, S.A., J.S. Owen, Jr., R.T. Fernandez, D. Hitchcock, J. Parke, C. Hall, A. Lamm, L. Oki, P.C. Wilson, J. Lea-Cox, D. Ingram, B. Cregg, P. Fisher, D. Sample, L. Sanagorski, S. Tjosvold, and D. Haver. 2014-2019. Clean Water³ - Reduce, Remediate, Recycle: Increasing profitability in specialty crops. USDA-NIFA Specialty Crop Research Initiative.
- Owen, J.S., Jr., J.S. Fields*, and J. Brindley. 2015. Engineering soilless substrates for improved water use efficiency and available water in containerized production. Virginia Nursery Landscape Association.
- Owen, J.S., Jr., J. Shreckhise*, A. Niemiera, and M. Eick. 2015. Rethinking phosphorus fertility in container nursery production: Identifying the fate and lowest rate of phosphorus. Horticultural Research Institute.
- Owen, J.S., Jr., A.X. Niemiera, R. Mack*, and J. Latimer. 2015. Determining utilization and efficacy of best management practices for the Virginia nursery industry. Virginia Nursery Landscape Association.
- Owen, J.S., Jr., and J. Brindley*. 2014. Evaluating compost filter socks for agrichemical remediation of runoff in ornamental nurseries as a cost-effective means to effectively treat water. Oregon Department of Agriculture / Oregon Association of Nurseries.
- Owen, J.S., Jr., S. White, B. Krug, and B. Whipker. 2014. Managing water and fertilizer: A comprehensive crop production tool for the mobile grower. Horticultural Research Institute.

Selected Extension Activities

- Owen, J.S., Jr., A. LeBude, M. Chappell, and T. Hoskins*. 2016. Advanced irrigation management for container-grown ornamental crop production. Virginia Cooperative Extension Service Publication HORT-218P.
- Owen, J.S., Jr., S.A. White, B.E. Whipker, and B. Krug. 2016. GroZoneTracker: A free mobile app to help you record, monitor, and share water quality and substrate pH and electrical conductivity data within your nursery and greenhouse operation. Virginia Cooperative Extension Service Publication HORT-2227P.
- Owen, J.S., Jr., A. Fulcher, A. LeBude, and M. Chappell. 2016. Hydrangea production: cultivar selection and general practices to consider when propagating and growing hydrangea. U. Tennessee Institute of Agriculture. PB 1840-A.
- Chappell, M.R., J.S. Owen, Jr., S.A. White, and J. Lea-Cox. 2013. Irrigation management practices. *In*: T. Yeager, T. Bilderback, D. Fare, C. Gilliam, J. Lea-Cox, A. Niemiera, J. Ruter, K. Tilt, S. Warren, T. Whitwell, and R. Wright (eds.). Best management practices: Guide for producing nursery crops. 3rd edition. Southern Nursery Association, Atlanta, GA.

Selected Outreach and Professional Service

- 2012 – present, Ex-officio board member, Virginia Nursery and Landscape Assoc.
- 2009 – present, Water Management and Quality for Ornamental Crop Production and Health, Multistate Research Group NC1186. Chair-elect 2009-2010, Chair 2011-2012

Inclusive Practices and Diversity Initiatives

- Fundamentals of Diversity: Appreciating Differences Workshop. 2014 VCE Professional Development Conference. Blacksburg, VA
- Title IX and Violence Against Women Act (VAWA) Online Training