LISA MARIE SCHILE

Smithsonian Environmental Research Center
PO Box 28, Contees Wharf RdTennenbaum Marine Observatories Network
schilel@si.eduEdgewater, MD 21037-0028443-482-2245

EDUCATION

2012	Ph.D University of California, Berkeley - Environmental Science, Policy, and
	Management
2003	M.S University of Louisiana at Lafayette - Biology
2001	B.S University of California, San Diego - Ecology, Behavior, and Evolution

RELEVANT EXPERIENCE

2014-current	MarineGeo Postdoctoral Researcher, wetland and seagrass carbon dynamics along latitudinal gradients; Smithsonian Environmental Research Center
2013-2014	Postdoctoral Researcher, suspended sediment concentration modeling in wetlands; San Francisco Bay National Estuarine Research Reserve
2013	International Blue Carbon Working Group participant; Paris, France
2013	Postdoctoral Research Fellow, wetland carbon sequestration in Abu Dhabi, tree
	trunk methane emissions; Smithsonian Institution
2010 - 2011	National Center for Ecological Analysis & Synthesis working group: Tidal
	wetland carbon sequestration and greenhouse gas emissions modeling
2008 - 2010	Independent contractor, wetland vegetation mapping; Wetlands and Water
0005 0010	Resources
2007 - 2012	CALFED Science Pre-Doctoral Fellow & graduate student researcher, wetland vegetation, remote sensing, GIS, modeling; University of California, Berkeley
2006 - 2013	Research technician; restoration and sediment monitoring; South Bay Salt Pond
2000 - 2013	Restoration Program; University of San Francisco
2005 - 2006	Independent contractor, wetland vegetation monitoring; National Estuarine
2005 2000	Research Reserve System
2004 - 2007	Research technician II, wetland vegetation monitoring; Integrated Regional
2007 2007	Wetland Monitoring Project; San Francisco State University
2002 - 2003	Graduate student researcher and instructor, wetland plant ecology; University of
	Louisiana at Lafayette
2001	Field assistant, herpetology; University of Wisconsin, Madison
2001	Research technician, integrated pest management; Washington State University
2000 - 2001	Research assistant, paleoecology; Scripps Institution of Oceanography
2000	Research technician, population genetics; University of Wisconsin, Madison
1999 - 2000	Undergraduate researcher, phycology; UCSD Faculty Mentor Program;
	University of California, San Diego and Scripps Institution of Oceanography
1999	Research assistant, insect ecology; University of California, San Diego
1997 - 1999	Research technician, plant ecology; University of Louisiana at Lafayette

PUBLICATIONS

Schile, L., J. Callaway, K. Suding, and M. Kelly. *In review*. Can community structure track sealevel rise? Stress and competitive controls in tidal wetlands. *Ecology Letters*.

Schile, L., J. B. Kauffman, S. Crooks, J. Fourqurean, J. G, and J. P. Megonigal. *In review*. Limits on Carbon Sequestration in Arid Blue Carbon Ecosystems. *Ecological Applications*.

Schile, L., J. Callaway, J. Morris, D. Stralberg, V. T. Parker, and M. Kelly. 2014. Modeling tidal wetland distribution with sea-level rise: evaluating the role of vegetation in marsh resilience. *PLoS ONE*. 9(2): e88760.doi:10.1371/journal.pone.0088760

Schile, L. K. Byrd, L. Windham-Myers, and M. Kelly. 2013. Accounting for non-photosynthetic vegetation in remote sensing based estimates of carbon flux in wetlands. *Remote Sensing Letters* 4(6): 542-551.

Parker, V.T., J.C. Callaway, **L.M. Schile**, M.C. Vasey & E. Herbert. 2012. Tidal plant communities of the San Francisco Bay-Delta: Conceptual model of tidal marsh structure and function. In: Tidal Salt Marshes of the San Francisco Bay Estuary: ecology, restoration, preservation. A. Palaima (ed.) University of California Press, Berkeley.

Parker, V.T., J.C. Callaway, **L.M. Schile**, M.C. Vasey & E. Herbert. 2012. San Francisco Bay-Delta tidal wetlands and their response to climate change. In: Tidal Salt Marshes of the San Francisco Bay Estuary: ecology, restoration, preservation. A. Palaima (ed.) University of California Press, Berkeley.

Vasey, M.C., V.T. Parker, J.C. Callaway, E.R. Herbert, and **L.M. Schile**. 2012. Vegetation of the tidal wetlands in SF Bay-Delta. San Francisco Estuary and WatershedScience 10(2).

Schile, L., V. T. Parker, J. Callaway, and M. Vasey. 2011. Salinity and inundation influence productivity of the halophytic plant *Sarcocornia pacifica*. *Wetlands* 31(6):1165-1174.

Callaway, J. C., V.T. Parker, M. C. Vasey, **L. M. Schile**, & E. R. Herbert. 2011. Tidal wetland restoration in San Francisco Bay: History and Current Issues. *San Francisco Estuary and Watershed Science* 9(3):1-12.

Parker, V. T., **L. Schile**, M. Vasey, and J. Callaway. 2011. Efficiency in assessment and monitoring methods: scaling down gradient-directed transects. *Ecosphere* 2(9):99. doi: 10.1890/ES11-00151.1.

Parker, V. T., J. Callaway, **L. Schile**, M. Vasey, and E. Herbert. 2011. Climate change and San Francisco Bay-Delta tidal wetlands. *San Francisco Estuary & Watershed Science* 9(3):1-15.

Parker, V.T., E.R. Herbert, J.C. Callaway, **L.M. Schile**, and M.C. Vasey. 2011. Impact of climate change on San Francisco Bay-Delta tidal wetlands. In: Willoughby, J.W., B.K. Orr, K.A. Schierenbeck, and N.J. Jensen (eds.). Strategies and Solutions, California Native Plant Society 2009 Conservation Conference Proceedings. CNPS, Sacramento, CA, pp 230-244.

Stralberg, D., M. Brennan, J. Callaway, J. Wood, **L. Schile**, D. Jongsomjit, M. Kelly, V. T. Parker, and S. Crooks. 2011. Evaluating tidal marsh sustainability in the face of sea-level rise: a hybrid modeling approach applied to San Francisco Bay. *PLOS ONE* 6(11): e27388. doi:10.1371/journal.pone.0027388.

Tuxen, K., **L. Schile**, D. Stralberg, S. Siegel, V. T. Parker, M. Vasey, J. Callaway, and M. Kelly. 2011. Mapping changes in tidal wetland vegetation composition and pattern across a salinity gradient using high spatial resolution imagery. *Wetlands Ecology and Management* 19:141-157.

Leck, M. A., A. Baldwin, V. T. Parker, **L. Schile**, and D. Whigham. 2009. Plant communities of tidal freshwater wetlands of the continental USA and southeastern Canada. In: A. Barendregt, D. Whigham, and A. Baldwin (eds.) Tidal Freshwater Wetlands. Backhuys Publishers; Leiden, The Netherlands, pp. 41-58.

Tuxen, K.*, **L. Schile***, M. Kelly, and S. Siegel. 2008. Vegetation colonization in a restoring tidal marsh: a remote sensing approach. *Restoration Ecology* 16(2):313-323. *co-first authors

Callaway, J., V. T. Parker, M. Vasey, and **L. Schile**. 2007. Emerging issues for the restoration of tidal marsh ecosystems in the context of predicted climate change. Madroño 54(3): 234-248.

Schile, **L**. and S. Mopper. 2006. The deleterious effects of salinity stress on leafminers and their freshwater host. *Ecological Entomology* 31:345-351.

Lank, E., K. Withee, **L. Schile**, and V. T. Parker. 2006. User centered rapid application development. in <u>Rapid Integration of Software Engineering Techniques: Second</u> <u>International Workshop, RISE 2005</u>. N. Guelfi and A. Savidis (Eds). Springer Berlin / Heidelberg, pp 34-49.

Mancera, J., G. Meche, P. Cardona-Olarte, E. Castañeda-Moya, R. Chiasson, N. Geddes, **L. Schile**, H. Wang, G. Guntenspergen, and J. Grace. 2004. Fine-scale spatial variation in plant species richness and its relationship to environmental conditions in coastal marshlands. *Plant Ecology* 178:39-50.

FELLOWSHIPS, AWARDS, AND CERTIFICATIONS

2012	Conference Travel Grant recipient, The Wetland Foundation – \$1,200
2011	Best Student Poster, State of the Estuary conference, Oakland, CA
2010	OSHA 10 hour Occupational Safety & Health Training Course
2009	3 day Vegetation Mapping course, California Native Plant Society
2008	Northern California Botanists Scholarship – \$1,000
2007 - 2011	CALFED Science Pre-Doctoral Fellowship - \$125,750
2007	ESPM Graduate Fellowship – 2 semesters of fees and salary
2007	Commercial Class C drivers license, Hazardous Materials endorsement

2003	Best Oral Presentation, Department of Biology Graduate Student Symposium,
	University of Louisiana at Lafayette

2003 Sigma-Xi Grants in Aid of Research – \$500

PROFESSIONAL ACTIVITIES

- 2011 2014 American Geophysical Union
- 2008 2012 American Society for Photogrammetry and Remote Sensing
- 2004 2012 California Native Plant Society
- 2003 2014 Estuarine Research Federation
- 2003 2012 Society of Wetland Scientists
- 2003 2008 Ecological Society of America