

## LISA MARIE SCHILE

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### EDUCATION

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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

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### RELEVANT EXPERIENCE

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2010 - 2011 National Center for Ecological Analysis & Synthesis working group: Tidal wetland carbon sequestration and greenhouse gas emissions modeling  
2007 - 2012 CALFED Science Pre-Doctoral Fellow; Graduate student researcher; University of California, Berkeley  
2006 - 2012 Research technician, sediment monitoring; South Bay Salt Pond Restoration Program; University of San Francisco  
2005 - 2006 Independent contractor, vegetation monitoring; National Estuarine Research Reserve System  
2004 - 2008 Research technician II, vegetation monitoring; Integrated Regional 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

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### PUBLICATIONS

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**Schile, L.**, J. Callaway, K. Suding, and N. M. Kelly. *In preparation*. Simulated sea-level rise differentially impacts tidal wetland plant biomass and competitive ability. Submitting to *Ecology* in June 2012

**Schile, L.** K. Byrd, and N. M. Kelly. *In preparation*. Accounting for non-photosynthetic vegetation in remote sensing based estimates of carbon flux in wetlands. Submitting to *Remote Sensing Letters* in July 2012.

**Schile, L.**, J. Callaway, V. T. Parker, and N. M. Kelly. *In preparation*. Modeling sea-level rise impacts on tidal wetland marsh distribution in the San Francisco Bay Estuary. Submitting to *Estuaries and Coasts* in July 2012.

Vasey, M.C., V.T. Parker, **L.M. Schile**, J.C. Callaway & E.R. Herbert. *In press*. Vegetation of the tidal wetlands in SF Bay-Delta. San Francisco Estuary and Watershed Science.

Parker, V.T., J.C. Callaway, **L.M. Schile**, M.C. Vasey & E. Herbert. *In press*. 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. *In press*. 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.

**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 Rapid Integration of Software Engineering Techniques: Second International Workshop, RISE 2005. 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.

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## FELLOWSHIPS, AWARDS, AND CERTIFICATIONS

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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

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## TEACHING AND OUTREACH

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2012	Volunteer - “GeoGirls : Introduction to GPS and Google Earth” workshop, Expanding Your Horizons Conference - Berkeley, CA
2011	Volunteer - “Restoring our wetlands: the microbial balancing act” exhibit, Lawrence Berkeley National Laboratory Open House - Berkeley, CA

- 2010 - 2011 Graduate mentor for Senior Thesis - Alexandra Christian - "Below-ground biomass of *Sarcocornia pacifica* in restored and natural marshes in San Francisco Bay" - University of California, Berkeley - Berkeley, CA
- 2009 Guest Lecturer, "Introduction to Wetlands" - Environmental Science 10 course - University of California, Berkeley - Berkeley, CA
- 2004 - 2012 Volunteer - The Watershed Native Plant Nursery - Richmond, CA
- 2003 Graduate student instructor, Evolution course - University of Louisiana at Lafayette - Lafayette, LA
- 2002 - 2003 Introductory Biology lab instructor - University of Louisiana at Lafayette

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## PROFESSIONAL ACTIVITIES

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

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## CONFERENCES AND SEMINARS

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- 2012 Society of Wetland Scientists / Intecol conference (June) - Orlando, FL - Invited oral presentation: "Modeling sea-level rise effects on tidal wetland distributions in the San Francisco Bay estuary"
- 2012 American Society for Photogrammetry and Remote Sensing conference - Sacramento, CA - oral presentation: "Modeling changes in wetland distributions in the San Francisco Bay estuary with sea-level rise"
- 2012 American Geophysical Union conference - San Francisco, CA - poster presentation: "Effects of simulated sea-level rise on the growth of two tidal wetland plant species"
- 2011 USGS Water Resources Research Seminar Series - Menlo Park, CA - invited oral presentation: "Tidal wetland vegetation in the San Francisco Bay Estuary: modeling species distributions with sea-level rise" (<http://wwwrcamnl.wr.usgs.gov/wrdseminar/playwrd.htm?id=20oct2011>)
- 2011 State of the Estuary conference - Oakland, CA - poster presentation: "Effects of simulated sea-level rise on the growth of two tidal wetland plant species" - Best student poster
- 2010 CALFED Science Conference - Sacramento, CA - poster presentation: "Tidal wetland vegetation diversity gradients across and within sites in the San Francisco Bay Estuary"
- 2010 Coastal and Estuarine Research Federation conference - Portland, OR - oral presentation: "Rapid sediment accumulation in a restoring tidal salt marsh in the San Francisco Bay Estuary"
- 2008 CALFED Science Conference - Sacramento, CA - oral presentation: "Elevation, inundation, & vegetation patterns in natural and restored wetlands"

- 2008 Northern California Botanists Symposium - Chico, CA - invited oral presentation: "Elevation, inundation, and vegetation patterns in the San Francisco Bay-Delta"
- 2007 Ecological Society of America conference - San Jose, CA - poster presentation: "Inundation influences pickleweed productivity in San Pablo Bay marshes"
- 2007 Society of Wetland Scientists conference - Sacramento, CA - oral presentation: "Elevation, inundation, and vegetation patterns in the San Francisco Bay-Delta"
- 2006 CALFED Science Conference - Sacramento, CA - poster presentation: "Inundation influences pickleweed productivity in San Pablo Bay marshes"
- 2006 Bay Area Conservation Biology Symposium - San Francisco, CA - oral presentation: "Vegetation change detection in a restoring marsh"
- 2005 Estuarine Research Federation conference - Norfolk, VA - oral presentation: "Developing non-destructive methods for sampling plant productivity in wetlands"
- 2005 Ecological Society of America / Intecol Joint meeting - Montreal, Canada - oral presentation: "Developing non-destructive methods for sampling plant productivity in wetlands"
- 2004 CALFED Science Conference - Sacramento, CA - poster presentation: "Evaluation of vegetation sampling methods for brackish wetlands"
- 2004 Ecological Society of America conference - Portland, OR - poster presentation: "Comparative vegetation development in different aged brackish tidal wetlands along the lower Napa River, San Francisco Estuary, California"
- 2003 University of Louisiana at Lafayette Biology Graduate Student Symposium - Lafayette, LA - oral presentation: "Salinity stress affects plant-insect interactions: a case study from a Louisiana wetland" - Best oral presentation
- 2003 Estuarine Research Federation conference - Seattle, WA - poster presentation: "Salinity stress decreases the performance of a leafmining insect on a native wetland Louisiana Iris"
- 2003 Society of Wetland Scientists conference - New Orleans, LA - poster presentation: "Salinity stress affects plant-insect interactions: a case study from a Louisiana wetland"
- 2003 Ecological Society of America conference - Savannah, GA - oral presentation: "Leafminer performance on brackish and freshmarsh *Iris hexagona* under different salinity regimes"