

Peter Gault Kennedy

CURRICULUM VITAE

Department of Plant and Microbial Biology
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Professional Status:

2005 - present Post-doctoral Research Associate
University of California, Berkeley, Berkeley, CA

Education:

2005 Ph. D. in Integrative Biology
University of California, Berkeley, Berkeley, CA
Project: Ecological factors affecting forest encroachment into
coastal California grasslands
Advisors: Wayne P. Sousa and Thomas D. Bruns

1999 Bachelor of Science, concentration in ecology
The Evergreen State College, Olympia, WA

Research Interests:

The effect of plant-fungal symbioses on plant population and community ecology
The influence of plants on fungal assemblage structure and interactions
The role of facilitation and competition on plant and fungal community dynamics

Grants and Fellowships:

2005 - present National Parks Ecological Research Fellowship: "Interspecific
competition among ectomycorrhizal fungi and its effect of
ectomycorrhizal assemblage structure and plant performance"

2003-2005 National Science Foundation Doctoral Dissertation Improvement
Grant: "Experimental investigations of the role of mycorrhizal
fungi in woody plant encroachment in California grasslands"

2002-2005 National Science Foundation Graduate Research Fellowship: "The
ecological role of mycorrhizae in plant interactions in mixed
evergreen forest"

2001 Mycological Society of San Francisco research grant

2001 California Native Plant Society research grant

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- 2000 Undergraduate research fellowship, Field Museum, Chicago, IL
- 1999 The Evergreen State College research grant
- 1995-1999 The Evergreen State College Athletic Scholarship
- 1995 The Evergreen State College Foundation Scholarship

Awards:

- 2000 Outstanding Graduate Student Instructor, Introductory Biology, UC Berkeley

Professional Experience:

- 2005 – 2007 Post-doctoral Research Fellow with Dr. Thomas Bruns, UC Berkeley
- 2005 Teaching assistant for Plant Physiological Ecology with Dr. Todd Dawson, UC Berkeley
- 2003 Teaching assistant for Population and Community Ecology, with Drs. Cherie Briggs and Mary Power, UC Berkeley
- 2003 Research assistant on mangrove ecology for Dr. Wayne Sousa, UC Berkeley
- 2002 Research assistant on mangrove ecology for Dr. Wayne Sosua, UC Berkeley
- 2001 Teaching assistant for Laboratory in Population and Community Ecology with Dr. Wayne Sousa, UC Berkeley
- 2001 Teaching assistant for Introduction to Methods in Environmental Science with Dr. Wayne Sousa, UC Berkeley
- 2000 Teaching assistant for Introductory Biology with Drs. Todd Dawson, Carla D'Antonio, and Glenys Thompson, UC Berkeley
- 1999 Mycology Student Intern with Dr. Greg Mueller, Field Museum, Chicago, IL

Specialized training:

- 2003 Stable Isotope Ecology Course, University of Utah

Invited Talks:

- 2006 Imperial College, CPB at Silwood Park, London, England
- 2005 California Botanical Society, San Francisco, CA
- 2005 Mycological Society of San Francisco, San Francisco, CA
- 2005 Dept. of Integrative Biology, UC Berkeley, CA
- 2004 Dept. of Plant Pathology, UC Davis, CA
- 2003 Dept. of Ecology and Evolutionary Biology, UC Santa Cruz, CA
- 2003 Forest Vegetation Management Conference, Redding, CA
- 2002 Common Mycorrhizal Networks Grant Meeting, UC Davis, CA

Talks at scientific meetings:

- 2006 Ecological Society of America (ESA) and International Conference on Mycorrhizas (ICOM) – Talk title: Examining the effects of competition on ectomycorrhizal interactions
- 2005 ESA and Mycological Society of America (MSA) – Talk title: Is the best ectomycorrhizal competitor the best plant symbiont?
- 2004 ESA – Talk title: Is plant facilitation important in forest encroachment? Evidence from California grasslands
- 2003 Forest Vegetation Management Conference – Talk title: Looking belowground: what mycorrhizal fungi may reveal about moving forward
- 2002 ESA and MSA – Talk title: Common mycorrhizal networks and host specificity patterns in a mixed evergreen California forest

Publications:

Kennedy P. G., Bergemann, S. E., Hortal, S., and T. D. Bruns. 2006. Determining the outcome of field-based competition between two *Rhizopogon* species using real-time PCR. *Molecular Ecology*, in press.

Kennedy P. G. and Sousa, W. P. 2006. Forest encroachment into a Californian grassland: examining the simultaneous effects of facilitation and competition on tree seedling recruitment. *Oecologia* 148: 464-474.

Rusca, T. A., **P. G. Kennedy**, T. D. Bruns. 2006. The effect of different pine hosts on the sampling of *Rhizopogon* spore banks in five Eastern Sierra Nevada forests. *New Phytologist* 170:15-160.

Sousa, W. P., **P. G. Kennedy**, B. J. Mitchell., B. M. Ordonez. 2006. Supply-side ecology in mangroves: do patterns of propagule dispersal and seedling establishment explain forest structure? *Ecological Monographs*, In press.

Kennedy P. G. and T. D. Bruns. 2005. Priority effects determine the outcome of ectomycorrhizal competition between two *Rhizopogon* species colonizing *Pinus muricata* seedlings. *New Phytologist* 166: 631-638.

Kennedy P. G. and J. M. Diaz. 2005. The influence of seed dispersal and predation on forest encroachment into a California grassland. *Madroño*: 21-29.

Kennedy P. G. 2005. Post-dispersal seed predation varies by habitat not acorn size for *Quercus chryseolepis* and *Lithocarpus densiflora* in central coastal California. *Madroño* 30-34.

Kennedy P. G., N. J. Hausmann, E. H. Wenk, and T. E. Dawson. 2004. The importance of seed reserves for early seedling performance: an integrative approach using morphological, physiological, and isotopic techniques. *Oecologia* 141: 547-554.

Kennedy P. G., A. D. Izzo, and T. D. Bruns. 2003. High potential for common mycorrhizal networks between understory and canopy trees in a mixed evergreen forest. *Journal of Ecology* 91: 1071-1080.

Sousa, W. P., **P. G. Kennedy**, and B. J. Mitchell. 2003. Propagule size and predispersal damage by insects affect establishment and early growth of mangrove seedlings. *Oecologia*. 135: 564-575.

Kennedy P. G. and T. Quinn. 2001. Understory plant establishment on old-growth stumps and the forest floor in western Washington. *Forest Ecology and Management* 154: 193-200.

Publications in preparation:

Kennedy P. G. and K. G. Peay. Varying soil moisture conditions change outcome of *Rhizopogon* species effects on *Pinus muricata* performance. Target journal: *Plant and Soil*.

Kennedy P. G., W. P. Sousa, T. D. Bruns. Major shifts in ectomycorrhizal fungal assemblages across a forest-grassland ecotone: potential implications for forest encroachment. Target journal: *Canadian Journal of Botany*.

Kennedy P. G., S. Hortal and T. D. Bruns. Competitive hierarchies among ectomycorrhizal fungi correspond with levels of host plant benefit. Target journal: *Ecology*.

Kennedy P. G., P. J. Boynton, and T. D. Bruns. The outcome of mycelial-based competition differs from that of spore-based competition between two *Rhizopogon* species. Target journal: *New Phytologist*.

Peay, K. G., T. D. Bruns, **P. G. Kennedy**, S. E. Bergemann, M. Garbelotto. Habitat size and isolation determine ectomycorrhizal assemblage structure. Target journal: *Ecology*.

Professional Service:

2002 – present	Trained undergraduate and graduate students in field and molecular methods in mycorrhizal ecology
2002	Reviewer for NSF biocomplexity grant on mycorrhizal ecology
2004-2005	Scientific Contributor to <i>Mycena News</i> , Mycological Society of San Francisco
2005	Reviewer of manuscripts for <i>Ecology</i> , <i>Evolution</i> , <i>Forest Ecology and Management</i> , and <i>Trees</i>

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Professional Affiliations:

Ecological Society of America
Mycological Society of America

References:

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