

## CURRICULUM VITAE FOR PROMOTION AND TENURE

Peter G. Kennedy

### IDENTIFYING INFORMATION

#### Academic Rank

Associate Professor, Department of Plant and Microbial Biology (tenure home), Ecology, Evolution and Behavior, and Biology, Teaching, and Learning  
Graduate Faculty Appointment in PMB and EEB Programs

#### Education

Degree	Institution	Date Degree Granted
B.S.	The Evergreen State College Biology	1999
Ph.D.	University of California, Berkeley	2005

#### Positions/Employment

University of Minnesota, Twin Cities Associate Professor	2013-present
Intern Curator of Fungi at Bell Museum Lewis & Clark College	2017-present
Assistant Professor	2007-2013
NPER Post-doctoral Fellow	2007-2013
UC Berkeley, Graduate Teaching Assistants	2005-2007
	2000-2003, 2005

#### Current Membership in Professional Organizations

Mycological Society of America

### HONORS AND AWARDS FOR RESEARCH/CREATIVE WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

#### External Sources

C.J. Alexopoulos Outstanding Early Scientist, Mycological Society of America	2015
Reginald A. Buller Award, Outstanding Young Mycologist, International Mycological Association	2014
Martin-Baker Award, Mycological Society of America	2011

#### Internal Sources

CBS Student Board Most Valuable Professor	2017
CBS Student Board Golden Pipette Nominee	2016
CBS Student Board Golden Pipette Nominee	2015

### RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

#### Grants and Contracts

*Received at the University of Minnesota:*

PI – Norwegian Centennial Chairs Program

Co-PI (Harvard Kauserad, University of Oslo, Line Nybakken, Norwegian Life Sciences University)

Title: Quantifying the role of mycorrhizal fungi in soil organic matter dynamics in borest forest soils

Dates: 7/1/16-6/30/18

Direct Costs to Kennedy lab: \$75,000

Indirect Costs Kennedy lab: \$0

Total Award: \$150,000

Co-PI – National Science Foundation

PI (Rytas Vilgalys, Duke University)

Title: Evolutionary genomics of plant-fungal symbiosis: co-evolution of Pinaceae and their ectomycorrhizal fungi in the genus Suillus

NSF Award #: 1554181

Dates: 3/1/16-2/28/19

Direct Costs to Kennedy lab: \$289,516

Indirect Costs Kennedy lab: \$150,548

Total Award: \$941,018

Co-PI – Joint Genome Institute

PI (Sunny Liao, University of Florida)

Title: Combined 'omics approaches for the study of ectomycorrhizal symbiosis between Suillus and Pinaceae, with emphasis on their role in nutrient cycling

CSP Award #: 494397

Dates: 5/1/16-4/31/19

Total in-kind support: \$98,805

Co-PI – Joint Genome Institute

PI (Nhu Nguyen, University of Hawaii)

Title: A genome atlas of the ectomycorrhizal fungal genus Suillus: phylogenetic diversity and population genomics of a keystone guild of symbiotic forest fungi

FICUS Award #: 502931

Dates: 9/1/16-8/31/19

Total in-kind support: \$536,592

PI – U.S.D.A.

Title: Successional dynamics in peatland forests: is tamarack a key mediator of post-disturbance forest regeneration?

NIFA-Hatch Award #: MIN71-031

Dates: 10/1/14-9/31/16

Direct costs to Kennedy lab: \$47,500

Indirect Costs to Kennedy lab: \$0

Total award: \$47,500

***Received at the University of Minnesota – Student Grants***

Lauren Cline, Post-doc (Kennedy, Research co-mentor)

National Science Foundation Post-doctoral Biology Fellowship

January 2017-December 2017

Lotus Lofgren, Ph.D. Graduate Student (Kennedy, Research sponsor)

National Science Foundation Pre-doctoral Research Fellowship  
June 2015-May 2018

Caroline Daws, Ph.D. Graduate Student (Kennedy, Research sponsor)  
National Science Foundation Pre-doctoral Research Fellowship  
June 2016-May 2019

***Received at another institution:***

PI – National Science Foundation

Title: Ectomycorrhizal functioning and specificity in a global tri-partite symbiosis  
Division of Environmental Biology

Dates: 09/01/10-08/31/14

Direct Costs: \$240,185

PI – M.J. Murdock Charitable Trust

Title: Probing deeper into the nature of plant-microbial tri-partite interactions

Dates: 09/01/13-08/31/15

Direct Costs: \$54,000 (Declined by PI due to move to UMN)

PI – M.J. Murdock Charitable Trust

Title: Characterizing the role of *Frankia* bacteria in *Alnus* ectomycorrhizal fungal interactions

Dates: 01/01/11-12/31/12

Direct Costs: \$42,000

PI – National Science Foundation

Title: Collaborative research: Dispersal limitation as a primary determinant of ectomycorrhizal community structure

Division of Environmental Biology

Dates: 04/01/08-03/31/11

Direct Costs: \$76,145

PI – C.I.E.S. Fulbright Fellowship

Title: Mycorrhizal symbioses in Mexican *Alnus* forests: a community study using root-based molecular methods

Dates: 07/01/10-01/31/11

Direct Costs: \$20,175

**Publications**

***Refereed publications (underline are members of Kennedy lab, asterisk are undergraduate student co-authors)***

Fernandez C.W., and **P.G. Kennedy**. 2018 Melanization of mycorrhizal fungal necromass structures microbial decomposer communities. *Journal of Ecology* 106: 463-472.

Polme S, Bahram M, Jacquemyn H, **Kennedy P.G.**, Kohout P., Moora M., Oja J., Opik M., Pecoraro L., L. Tedersoo. Host preference and network properties in biotrophic plant-fungal associations. *New Phytologist*, in press.

Cline L.C., Schilling J.S., Menke J., Groenhof E., **P.G. Kennedy**. 2017. Ecological and functional effects of fungal endophytes on wood decomposition. *Functional Ecology*, in press.

*Effort 60% - Role: Collected data, assisted analyses, edited manuscript*

Cline L.C., Song Z., Al-Ghalith G., Knights D., **P.G. Kennedy** 2017. Moving beyond de novo clustering in fungal community ecology. *New Phytologist* 216: 629-634.

Ballhorn D, Elias J.D., Balkan M.A., Fordyce R.F., **P.G. Kennedy** 2017. Colonization by nitrogen-fixing *Frankia* bacteria causes short-term increases in herbivore susceptibility in red alder (*Alnus rubra*) seedlings. *Oecologia* 184: 497-506.

- Song Z., **Kennedy P.G.**, Liew F.J., Schilling J.S. 2017. Fungal endophytes as priority colonizers initiating wood decomposition. *Functional Ecology* 31: 407-418.
- Fernandez C.F., Nguyen N.H., Stefanski A., Han Y., Hobbie S.E., Montgomery R.A., Peter B. Reich P. B., **P.G. Kennedy** 2017. Ectomycorrhizal fungal response to warming is linked to poor host performance at the boreal-temperate ecotone. *Global Change Biology* 23:1598-1609.
- Nguyen N.H., Vellinga E., Bruns T.B., **P.G. Kennedy**. 2016. Phylogenetic assessment of global *Suillus* ITS sequences supports morphologically defined species and reveals synonymous and undescribed taxa. *Mycologia* 108: 1216-1228.
- Nguyen N.H., Williams L., Vincent J.B., Stefanski A., Cavender-Bares J., Messier C., Paquette A., Gravel D., Reich P.B., **P.G. Kennedy**. Ectomycorrhizal and saprotrophic fungal diversity are linked to different tree community attributes in a field-based tree experiment. 2016. *Molecular Ecology* 25: 4032-4046.
- Peay K.G., **Kennedy P.G.**, J.M. Talbot. 2016. Dimensions of biodiversity in the Earth mycobiome. *Nature Reviews Microbiology* 14:434-447.  
*Effort 10% - Role: Wrote supplement on human-associated mycobiome, edited manuscript*
- Rineau F., Stas J., Nguyen N.H., Kuyper T.W., Carleer R., Vangronsveld J, Colpaert J.V., and **P.G. Kennedy**. 2016. Soil organic nitrogen availability predicts ectomycorrhizal fungal protein degradation ability. *Applied and Environmental Microbiology*, 82: 1391-1400.  
*Effort 25% - Role: Provided isolates, ran all statistical analyses, heavily edited manuscript*
- Mujic A., Durall D. M., Spatafora J. W., **P.G. Kennedy**. 2016. Competitive avoidance not edaphic specialization drives vertical niche partitioning of sister species of ectomycorrhizal fungi. *New Phytologist*, 209:1164-1173.
- Fernandez C.W., and **P.G. Kennedy**. 2016. Revisiting the ‘Gadgil Effect’: do interguild fungal interactions control carbon cycling in forest soils? *New Phytologist*, 209:1382-1394.
- Nguyen N.H., Song Z., Bates S.T., Branco S., Tedersoo L., Menke J., Schilling J.S., **P.G. Kennedy**. 2016. FUNGuild: An open annotation tool for parsing fungal community datasets by ecological guild. *Fungal Ecology*, 20:241-248.
- Song Z., Schlatter D., **Kennedy P.G.**, Kinkel L.L., Kistler H.C., Nguyen N., Bates, S.T. 2015. Effort versus Reward: Preparing Samples for Fungal Community Characterization in High-Throughput Sequencing Surveys of Soils. *PLoS ONE*, 10: e0127234.
- Bogar L.M.\*, I. A. Dickie, **P. G. Kennedy**. 2015. Testing the co-invasion hypothesis: Ectomycorrhizal fungal communities associated with *Alnus glutinosa* and *Salix fragilis* in New Zealand. *Diversity and Distributions*, 21:268-278.
- Nguyen N., D. Smith, K. Peay, **P. G. Kennedy**. 2015. Parsing ecological signal from noise in next-generation amplicon sequencing. *New Phytologist*, 205: 1389-1393.
- Kennedy P. G.**, N. Nguyen, H. Cohen\*, K. Peay. 2014. Missing checkerboards? An absence of competitive signal in *Alnus*-associated ectomycorrhizal fungal communities. *PeerJ*, 2:e686; DOI 10.7717/peerj.686
- Huggins J.A.\*, J. Talbot, M. Gardes, **P. G. Kennedy**. 2014. Unlocking environmental keys to specificity: different tolerance of acidity and nitrate of *Alnus*-associated ectomycorrhizal fungi. *Fungal Ecology*, 12:51-62.
- Walker, J., H. Cohen\*, L. Higgins\*, **P.G. Kennedy**. 2014. Testing the link between community structure and function for ectomycorrhizal fungi involved in a global tri-partite symbiosis. *New Phytologist*, 202: 287-296.
- Bubriski, R.\* and **P. G. Kennedy**. 2014. A molecular and morphological analysis of the genus *Rhizopogon* subgenus *Villosuli* section *Villosuli* as a preface to ecological monitoring. *Mycologia*, 106: 353-361.

- Bogar, L. M.\* and **P. G. Kennedy**. 2013. New wrinkles in an old paradigm: Neighborhood effects can modify the structure and specificity of *Alnus*-associated ectomycorrhizal fungal communities. *FEMS Microbiology Ecology*, 83: 767-777.
- Polme, S., M. Bahram, T. Yamanaka, K. Nara, Y.C. Dai, T. Grebene, H. Kraigher, M. Toivonen, P-H. Wang, Y. Matsuda, T. Naadel, **P. G. Kennedy**, U. Koljalg, L. Tedersoo. 2013. Biogeography of ectomycorrhizal fungi associated with alders (*Alnus* spp.) in relations to biotic and abiotic variables at the global scale. *New Phytologist*, 198: 1239-1249.
- Kennedy P. G.**, D. P. Smith\*, T. R. Horton, R. Molina. 2012. *Arbutus menziesii* (Ericaceae) facilitates regeneration dynamics in mixed evergreen forests by promoting mycorrhizal fungal diversity and host connectivity. *American Journal of Botany* 90: 1-11.
- Kennedy, P. G.**, P. B Matheny, K. M. Ryberg, T. W. Henkel, J. Uehling, M. E. Smith. 2012. Scaling up: examining the macroecology of ectomycorrhizal fungi. *Molecular Ecology* 21: 4151-4154.
- Higgins, L. M.\* and **P. G. Kennedy**. 2012. Symbiotic *Frankia* bacteria in *Alnus* forests in Mexico and the United States: Is geographic location a good predictor of assemblage structure? *Botany* 90: 423-431.
- Kennedy, P. G.**, L. M. Higgins\*, R. H. Rogers\*, M. G. Weber. 2011. Colonization-competition tradeoffs as a mechanism driving successional dynamics in ectomycorrhizal fungal communities. *PLoS ONE* 6: e25126.
- Kennedy, P. G.** 2011. Ectomycorrhizal fungi in alder forests: a global anomaly in richness and composition? *McIlvainea* 20:  
[http://www.namyc.org/publications/mcilvainea/v20/alder\\_fungi.html](http://www.namyc.org/publications/mcilvainea/v20/alder_fungi.html)
- Kennedy, P. G.**, R. Garibay-Orijel, L. M. Higgins\*, R. Angeles\*. 2011. Ectomycorrhizal fungi in Mexican *Alnus* forests support the host co-migration hypothesis and continental-scale patterns in phylogeography. *Mycorrhiza* 21: 559-568.
- Peay, K. G., **P. G. Kennedy**, T.D. Bruns 2011. Rethinking ectomycorrhizal succession: are root density and hyphal exploration types drivers of spatial and temporal zonation? *Fungal Ecology* 4: 233-240.
- Lipus, A.\* and **P. G. Kennedy** 2011. *Frankia* assemblages associated with *Alnus rubra* and *Alnus viridis* are strongly influenced by host plant species identity. *International Journal of Plant Sciences*, 172(3): 403-410.
- Kennedy, P. G.** 2010. Ectomycorrhizal fungi and interspecific competition: species interactions, community structure, coexistence mechanisms, and future research directions. *New Phytologist* 187: 895-910.
- Kennedy, P. G.**, M. G. Weber, A. A. Bluhm. 2010. *Frankia* bacteria and *Alnus rubra* forests: genetic diversity and determinants of assemblage structure. *Plant and Soil* 335: 479-492.
- Peay, K. G., **P. G. Kennedy**, S. J. Davies, S. Tan, T. D. Bruns. 2010. Potential link between plant and fungal distributions in a dipterocarp forest: community and phylogenetic structure of tropical ectomycorrhizal fungi across a plant and soil ecotone. *New Phytologist* 185: 529-542.
- Kennedy, P. G.** and L. T. Hill\*. 2010. A molecular and phylogenetic analysis of the structure and specificity of *Alnus rubra* ectomycorrhizal assemblages. *Fungal Ecology* 3: 95-104.
- Kennedy, P. G.**, J. L. Schouboe\*, R. H. Rogers\*, M. G. Weber\*, and N. Nadkarni. 2010. *Frankia* and *Alnus rubra* canopy roots: an assessment of genetic diversity, propagule availability, and effects on soil nitrogen. *Microbial Ecology* 59: 214-220.
- Kennedy P. G.**, K. G. Peay, T. D. Bruns. 2009. Root-tip competition among ectomycorrhizal fungi: are priority effects the rule or the exception? *Ecology* 90: 2098-2107.
- Peay, K. G, **P. G. Kennedy**, T. D. Bruns. 2008. Fungal community ecology: a hybrid beast with a molecular master. *BioScience* 58: 799-810.

- Kennedy P. G.**, S. Hortal, S. Bergemann and T. D. Bruns 2007. Competitive interactions among three ectomycorrhizal fungi and their relation to host plant performance. *Journal of Ecology* 95: 1138-1345.
- Sousa W. P., **P. G. Kennedy**, B. J. Mitchell 2007. Supply-side ecology in mangroves: do propagule dispersal and seedling establishment explain forest structure? *Ecological Monographs* 77: 53-76.
- Palomino M., **P. G. Kennedy**, E. L. Simms 2007. Nickel hyperaccumulation as an anti-herbivore trait: considering the role of tolerance to damage. *Plant and Soil* 293: 189-195.
- Kennedy P. G.** and K. G. Peay (equal authorship contribution). 2007. Varying soil moisture conditions change outcome of *Rhizopogon* species effects on *Pinus muricata* performance. *Plant and Soil* 291:155-165.
- Peay K. P., T. D. Bruns, **P. G. Kennedy**, S. Bergemann, M. Garbelotto. 2007. A strong species-area relationship for eukaryotic soil microbes: island size matters for ectomycorrhizal fungi. *Ecology Letters* 10:470-480.
- Kennedy P. G.**, S. Bergemann, S. Hortal, and T. D. Bruns. 2007. Determining the outcome of field-based competition between two *Rhizopogon* species using real-time PCR. *Molecular Ecology* 16: 881-890.
- 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: 150-160.
- 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* 52: 21-29.
- Kennedy P. G.** 2005. Post-dispersal seed predation varies by habitat not acorn size for *Quercus chrysolepis* and *Lithocarpus densiflora* in central coastal California. *Madroño* 52: 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.

#### ***Unrefereed Publications***

- P. G. Kennedy**, L. C. Cline, Z. Song. Probing promise versus performance in longer read fungal metabarcoding. *New Phytologist*, In press.
- Fernandez C. W. and **P. G. Kennedy**. 2015. Moving beyond the black-box: fungal traits, community structure, and carbon sequestration in forest soils. *New Phytologist* 205: 1378-1380.
- Kennedy P. G.** and J. Stajich. 2015. 21st century mycology: A diverse, collaborative, and highly relevant science. *New Phytologist* 205: 23-26.

Bruns T. D. and **P. G. Kennedy**. 2009. Individuals, populations, communities and function: the growing field of ectomycorrhizal ecology. *New Phytologist* 182: 12-14.

**Kennedy P. G.** and T. D. Bruns 2007. Mycorrhizas take root the Ecological Society of America. *New Phytologist* 176: 745-748.

**Book Chapter**

**Kennedy, P. G.**, Walker, J. K. M., Bogar, L. M.\*. 2015. Exploring the ecology of non-networking hosts: a case study of the genus *Alnus*. Horton T. ed., “The Ecology of Mycorrhizal Networks”, Springer.

**Presentations, Posters, and Exhibits (\*invited contribution, presentation by Kennedy unless noted as co-author)**

2017: Ecological Society of America (ESA) – Talk title: Contrasting mycorrhizal guild responses across shared ecological gradients in boreal forest peatlands, (co-author on two other talks and one poster)

2016: Mycological Society of America (MSA) – Talk title: Comparing clustering methods across diverse fungal communities using next-generation sequencing.

2015: \*International Conference on Mycorrhizas (ICOM) – Talk title: Ectomycorrhizal functioning and specificity in global tri-partite symbiosis, (co-author on three other talks and one poster)

2014: \*Mycological Society of America (MSA) – Talk title: Missing checkerboards? An absence of competitive signal in *Alnus*-associated ectomycorrhizal fungal communities. (co-author on two other talks)

2013: \*Mycological Society of America (MSA) – Talk title: Strangers in a new land: ectomycorrhizal fungi on *Alnus* and *Salix* in New Zealand.

2012: Ecological Society of America (ESA) – Talk title: Competition-colonization tradeoffs and successional dynamics among ectomycorrhizal fungi, (co-author on one talk and three posters)

2011: MSA – Talk title: Competition-colonization tradeoffs and successional dynamics among ectomycorrhizal fungi, co-author on one poster.

2010: International Society of Microbial Ecology (ISME) – Poster title: 1) *Frankia* and *Alnus rubra* canopy roots: an assessment of genetic diversity, propagule availability, and effects on soil nitrogen, (co-author on one other poster)

2009: \*American Society of Microbiology (ASM) – Talk title: Exploring ecological principles with microbes: case studies of fungal competition, Mycological Society of America – Poster title: A molecular and phylogenetic analysis of the structure and specificity of *Alnus rubra* ectomycorrhizal assemblages.

2008: \*New Phytologist Symposium, Ecology of Ectomycorrhizal fungi – Talk title: Assembly and dynamics of ectomycorrhizal communities.

2007: \*ESA – Talk title: Mechanisms of ectomycorrhizal competition in early successional settings

2006: ESA - Talk title: Examining the effects of competition on ectomycorrhizal interactions, (co-author on one other talk)

2006: International Conference on Mycorrhizas (ICOM) – Talk title: Examining the effects of competition on ectomycorrhizal interactions

2005: ESA Talk title: Is the best ectomycorrhizal competitor the best plant symbiont?

2005: 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 management forward

2002: ESA and MSA – Talk title: Common mycorrhizal networks and host specificity patterns in a mixed evergreen California forest.

**Invited Seminars:**

2017: University of Tennessee, Knoxville, TN  
2017: Harvard University, Cambridge, MA  
2017: Michigan Technical University, Houghton, MI  
2017: UMGC Genofest, Minneapolis, MN  
2017: University of Minnesota, St. Paul, MN  
2016: Duke University, Durham, NC  
2016: University of Illinois, Urbana, IL  
2016: University of Florida, Gainesville, FL  
2015: Sherbrooke University, Sherbrooke, Canada  
2015: University of Quebec at Montreal, Canada  
2014: University of Michigan, Ann Arbor, MI  
2014: Stanford University, Palo Alto, CA  
2014: University of California, Berkeley, Berkeley, CA  
2014: Chicago Area Plant Sciences Symposium, Chicago, IL  
2013: The Evergreen State College, Olympia, WA  
2013: Portland State University, Portland, OR  
2013: University of Minnesota, Twin Cities, MN  
2012: University of Miami, Miami, FL  
2012: Oregon State University, Corvallis, OR  
2011: University of Oregon, Eugene, OR  
2010: Institute of Ecology, National Autonomous University, Mexico  
2010: Institute of Biology, National Autonomous University, Mexico  
2009: Oregon State University, Corvallis, OR  
2008: Portland State University, Portland, OR  
2008: Reed College, Portland, OR  
2007: Lewis and Clark College, Portland, OR  
2006: Imperial College, London, England  
2005: UC Berkeley, CA  
2004: UC Davis, CA  
2003: UC Santa Cruz, CA

**TEACHING AND CURRICULUM DEVELOPMENT**

**Courses Taught**

***University of Minnesota***

Foundations of Biology - Biol 2003: Fall 2014 (68 students), Fall 2015 (121 students), Fall 2016 (120 students), Fall 2017 (122 students)

*Teaching Role – 50% of course*

*2017 Credit Hours: 122 students x 3 credits x 0.5 load = 183*

Plant, Algal, Fungal Diversity – Biol 3007W: Fall 2014 (64 students), Fall 2015 (70 students), Fall 2016 (65 students), Fall 2017 (82 students)

*Teaching Role – 30% of course*

*2017 Credit Hours: 82 students x 4 credits x 0.30 load = 98*

Community Genetics Seminar – EEB 8091: Spring 2015 (10 students)

*Teaching Role – 50% of course*

*2016 Credit Hours: 20 students x 1 credits x 0.5 load = 10*

Nature of Life – CBS: Summer 2015 (1 session), CBS: Summer 2016 (2 sessions)



***Lewis & Clark College***

Microbiology + lab (24 students): Spring 2008, Fall 2009, Spring 2012, Spring 2013

*Teaching Role – 100% of course*

Introductory Ecology + lab (108 students): Fall 2007, 2011, 2012

*Teaching Role – 100% of course*

Plant Biology + lab (24 students): Fall 2007, Spring 2009

*Teaching Role – 100% of course*

**Faculty Development Activities regarding teaching**

***University of Minnesota***

Crash Course in Scientific Teaching Workshop (CBS) – January 2014

Co-PI for Interdisciplinary Graduate Group in Fungal Biology: UMycoNet – Spring 2015

**ADVISING AND MENTORING**

**Undergraduate Student Activities**

Undergraduate research projects (UROPS, directed research, lab participation, etc.)

***University of Minnesota***

Blake Boeing – directed research spring 2014

Natalie Pierson – laboratory volunteer spring 2015

Amanda Certano – directed research fall 2014, spring 2015

Leonce Song-Naba – directed research spring 2015

Cher-Ling Tong – directed research spring 2015

Louis Mielke – UROP spring 2015, fall 2015, summer 2016

Andrea Nelson – directed research fall 2015

Abigail Awode – directed research fall 2015

Adam Busacker – lab volunteer fall 2015

Eva Carlson – lab volunteer fall 2015

Erin Andrews – lab volunteer fall 2016

Alex Chang – lab volunteer 2015

***Macalester College***

Ingrid Green – research assistant summer 2014

Maya Burroughs – research assistant summer 2014

Michelle Coblens – research assistant summer 2016

***University of Chicago***

Obi Wamuo – research assistant summer 2017

***Lewis & Clark College***

Peter King – directed research fall 2013

Undergraduate honors projects directed

***Lewis & Clark College***

Turin Hill 2008  
Logan Higgins 2011  
Laura Bogar 2012  
Ryan Bubriski 2012  
Julia Huggins 2013

Undergraduate honors projects reader

***University of Minnesota***

Conor Burke-Smith 2017-2018  
Tracy Dinh 2016-2017  
Nhat Vo – 2014-2015  
Soham Shah – 2014-2015

Undergraduate advising

***Lewis & Clark College***

Primary academic advisor for 15-25 students/year - 2008-2013

### **Graduate Student Activities**

Doctoral Committees Directed

Lotus Lofgren, Plant Biological Sciences, University of Minnesota  
Craig See (co-advised with Sarah Hobbie), Ecology, Evolution, Behavior, University of Minnesota

Doctoral Committees Served on

Erin Treiber, Plant Biology, University of Minnesota  
John Benning, Plant Biology, University of Minnesota  
Katherine Mueller, Plant Biology, University of Minnesota  
Kristina Smith, Plant Biology, University of Minnesota  
Aaron David, EEB, University of Minnesota  
Noah Strom, Plant Biology, University of Minnesota  
Christina Portales-Reyes, EEB, University of Minnesota  
Rachel King, EEB, University of Minnesota  
Mara DeMers, Plant Biology, University of Minnesota  
Laura Toro-Gonzalez, University of Minnesota

Master Committees Served on

Kate Freund, EEB, University of Minnesota  
Jakob Riddle, EEB, University of Minnesota  
Jared Rubinstein, Agronomy, University of Minnesota

### **Post-doctoral fellows supervised**

Christopher Fernandez, University of Minnesota, 08/15/14 - present  
Lauren Cline, University of Minnesota, 8/31/15 – 12/31/17  
Nhu Nyugen, University of Minnesota, 09/01/2013 – 8/31/15  
Jennifer Walker, Lewis & Clark College, 04/01/12 – 06/01/13

### **Visiting Scholar Hosted**

Ylva Lekberg, Research Scientist, MPG Ranch – October 2017  
Katie Beidler, graduate student, Indiana University – August 2017  
Carrie Andrew, post-doc, University of Oslo – November 2016  
Luke McCormack, research scientist, Chinese Academy of Sciences, - Fall 2015 - present  
Ying Han, professor, associate professor, Southwest University of Science and Technology – 04/01/2015 – 12/31/16  
Peter Avis, associate professor, Indiana University Northwest, Summer 2015  
Sara Hortal, post-doc, University of Western Sydney – Summer 2014  
Mehmet Balkan, graduate student, Portland State University – Summer 2014

### **SERVICE AND PUBLIC OUTREACH**

#### **Service To The Discipline/Profession/Interdisciplinary Area(s)**

##### ***Editorships/Journal Reviewer Experience***

Associate Editor: Mycologia, 2014 - present  
Associate Editor: Fungal Ecology, 2010-2012  
Invited Reviewer (total): Botany, Ecology, Ecology Letters, Evolution, Evolutionary Bioinformatics, Forest Ecology and Management, Functional Ecology, Fungal Ecology, Journal of Plant Physiology, Nature, Microbial Ecology, Molecular Ecology, Molecular Ecology Resources, Mycologia, Mycorrhiza, MycoScience, New Phytologist, Oikos, Oecologia, Plant Ecology, Plant and Soil, PLoS ONE, Symbiosis, Trees, 2005 – present  
2015: 15 reviews, 5 papers as handling editor  
2016: 20 reviews, 6 papers as handling editor  
2017: 18 reviews, 7 papers as handling editor

##### ***Committee memberships***

Board of Advisors, New Phytologist Trust 2010 - present

##### ***Review panels for external funding agencies, foundations, etc.***

National Science Foundation – DEB 2017  
National Science Foundation – DEB 2015  
National Science Foundation – IOS 2013  
National Science Foundation – DEB 2013  
National Science Foundation – DEB 2009

##### ***Symposium Organizer***

First Annual UMycoNet Symposium - 2017  
International Conference on Mycorrhizas: Cooperation and Specificity - 2015  
Mycological Society of America: Fungal-Fungal Interactions - 2014  
Mycological Society of America: Multivariate Statistics for Community Ecology - 2009  
Ecological Society of America: Ecology of Ectomycorrhizal Fungi – 2007

#### **Service To The University/College/Department**

##### ***University of Minnesota***

BTL Head Search Committee – 2017-2018  
College of Biological Sciences (CBS) Consultative Committee – 2016 – present  
Plant and Microbial Biology Consultative Committee – 2015 - present

Itasca Director Search Committee – 2016-2017  
Microbial Cluster Hire Search Committee – 2016-2017  
CBS Graduate Student Awards Committee – 2016  
CBS Undergraduate Scholarship Awards Committee – 2016-2017  
MAES-Hatch Review Panel – 2015  
CBS Freshman Welcome Week Host (two lab tours) - 2015  
UMycoNet (Interdisciplinary Grad Group) founder and leadership member – 2015 – present  
Itasca Research Scientist Search Committee – Fall 2015  
Plant Biology Master Planning Committee – 2015  
Biology Teaching and Learning founding faculty member – 2014 - present  
Plant Biological Sciences Graduate Admissions Committee – 2014 - 2015  
Plant Biology Curriculum Committee – 2014 - present  
Plant Biology Anniversary Symposium Organizing Committee – 2014  
Plant Biology Graduate Student Orientation (presentation and foray leader) – 2014, 2016

***Lewis & Clark College***

Curriculum Committee – 2012-2013  
Student Petitions Committee – 2012 - 2013  
College Honor Board – 2011  
Library and Education Technology Committee – 2008-2009  
Departmental Seminar Coordinator – 2011-2013

**Public And Other Service**

***Research Talks to Public***

UMN Ecology Club, Minneapolis, MN – April 2017  
Joy Noelle Fungal inspired fashion show, Minneapolis, MN - 2017  
North American Mycological Association, Cable, WI - 2017  
Illinois Mycological Association, Chicago, IL - 2016  
Minnesota Mycological Society, St. Paul, MN - 2016  
North American Truffling Society, Corvallis, OR – 2011  
Oregon Mycological Society, Portland, OR – 2011  
Pacific Northwest Key Council, Trout Lake, WA – 2009  
Oregon Mycological Society, Portland, OR – 2008  
California Botanical Society, Berkeley, CA – 2005  
Mycological Society of San Francisco, San Francisco, CA – 2003