

CURRICULUM VITAE

THOMAS S. JENKINSON

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EDUCATION:

- 2017 Ph.D. in Ecology and Evolutionary Biology
University of Michigan, Ann Arbor, Michigan
- 2011 M.S. in Biology (Concentration: Ecology and Systematic Biology)
San Francisco State University, San Francisco, California
- 2005 B.S. in Biology (Concentration: Cell Biology), Minor in Chemistry
Oregon State University, Corvallis, Oregon

PROFESSIONAL EXPERIENCE:

- 2017 - *Present* NSF Postdoctoral Research Fellow – University of California, Berkeley
- 2011 Lecturer and Course Coordinator – Department of Biology, San Francisco State University

HONORS & AWARDS:

- 2017 Outstanding Graduate Student Instructor Award
Rackham Graduate School, University of Michigan
- 2015 Myron P. Backus Graduate Research Award
Mycological Society of America
- 2013 Best Graduate Student Oral Presentation Award
Mycological Society of America Annual Meeting: Austin, Texas
- 2010 Distinguished Graduate Student Award
College of Science and Engineering, San Francisco State University

GRANTS & FELLOWSHIPS:

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|-------------|---|-----------|
| 2017 - 2019 | NSF Postdoctoral Research Fellowship in Biology (PRFB)
National Science Foundation | \$138,000 |
| 2016 | Helen Olson Brower Memorial Fellowship in Environmental Studies
Department of Ecology and Evolutionary Biology, University of Michigan | \$15,580 |
| 2016 | NSF Doctoral Dissertation Improvement Grant (DDIG)
National Science Foundation | \$20,150 |
| 2014 | Rackham Graduate Student Research Grant
Rackham Graduate School, University of Michigan | \$3,000 |
| 2013 - 2015 | Dow Doctoral Sustainability Fellowship
Graham Environmental Sustainability Institute, University of Michigan | \$50,000 |
| 2012 | Ecology and Evolutionary Biology Block Grant for Research
Department of Ecology and Evolutionary Biology, University of Michigan | \$2,896 |
| 2009 | Robert M. Maxwell Merit Scholarship
College of Science and Engineering, San Francisco State University | \$4,000 |
| 2008 - 2009 | NSF Graduate STEM Fellowship in K-12 Education (GK-12 Fellowship)
National Science Foundation | \$30,000 |

PUBLICATIONS:

Becker C. G., Greenspan S. E., Tracy K. E., Dash, J. A., Lambertini C., **Jenkinson T. S.**, da Silva Leite D., Toledo L. F., Longcore J. E., James T. Y. and K. R. Zamudio. (2017) Variation in phenotype and virulence among enzootic and panzootic amphibian chytrid lineages. *Fungal Ecology* 26: 45-50.

Jenkinson T. S., Betancourt Román C. M., Lambertini C., Aguilar-Valencia A., Rodriguez D., Nunes-de-Almeida C. H. L., Ruggeri J., Belasen A. M., da Silva Leite D., Zamudio K. R., Longcore J. E., Toledo L. F. and T. Y. James. (2016) Amphibian-killing chytrid in Brazil comprises both locally endemic and globally expanding populations. *Molecular Ecology* 25(13): 2978-2996.

* Selected for a highlight in a News and Views Perspectives article in *Molecular Ecology*

Lambertini C., Becker C. G., **Jenkinson T. S.**, Rodriguez D., da Silva Leite D., James T. Y., Zamudio K. R. and L. F. Toledo. (2016) Local phenotypic variation in amphibian-killing fungus predicts infection dynamics. *Fungal Ecology* 20: 15-21.

James T. Y., Toledo L. F., Rödder D., da Silva Leite D., Belasen A. M., Betancourt Román C. M., **Jenkinson T. S.**, Lambertini C., Longo A. V., Ruggeri J., Collins J. P., Burrowes P. A., Lips K. R., Zamudio K. R. and J. E. Longcore. (2015) Disentangling host, pathogen, and environmental determinants of a recently emerged wildlife disease: Lessons from the first 15 years of amphibian chytridiomycosis research. *Ecology and Evolution* 5(18): 4079-4097.

Jenkinson T. S., Schaefer R. E., Perry B. A. and D. E. Desjardin. (2014) *Cryptomarasmius gen. nov.* established in the Physalacriaceae to accommodate members of *Marasmius* section *Hygrometrici*. *Mycologia* 106(1): 86-94.

Rosenblum E. B., James T. Y., Zamudio K. R., Poorten T., Ilut D., Rodriguez D., Eastman J., Richards-Hrdlicka K., Joneson S., **Jenkinson T. S.**, Longcore J. E., Olea G. P., Toledo L. F., Arellano M. L., Medina E., Restrepo S., Flechas S. V., Berger L., Briggs C. E. and J. E. Stajich. (2013) Complex history of the amphibian-killing chytrid fungus revealed with genome resequencing data. *Proceedings of the National Academy of Sciences, U.S.A.* 110(23): 9385-9390.

Jenkinson T. S., Celio G. J., Padamsee M., Dentinger B. T. M., Meyer M. E. and D. J. McLaughlin. (2008) Conservation of cytoplasmic organization in the cystidia of *Suillus* species. *Mycologia* 100(4): 539-547.

Celio G. J., Padamsee M., Dentinger B. T. M., Josephsen K. A., **Jenkinson T. S.**, McLaughlin E. G., and D. J. McLaughlin. (2007) Septal pore apparatus and nuclear division of *Auriscalpium vulgare*. *Mycologia* 99(5): 644-654.

INVITED RESEARCH PRESENTATIONS:

- 2017 Secondary contact and rare sex between distant lineages of the amphibian-killing chytrid fungus
Invited lightning talk for the Society for the Study of Evolution Spotlight Session: Sex in the Wild
Evolution 2017: Portland, Oregon
- 2016 Population divergence and strain hybridization in the amphibian chytrid
Symposium on: What can population genomics of pathogenic fungi tell us about emergence?
Mycological Society of America: Berkeley, California
- 2015 Population genetics of *Batrachochytrium dendrobatidis* in southeastern Brazil
Institute of Health and Biological Sciences:
Universidade Federal de Alagoas, Maceió, Alagoas, Brazil
- 2014 Population history of the amphibian chytrid: Geographic insights from the Atlantic Forest
Symposium on: Fungal Diseases of Aquatic Animals
10th International Mycological Congress: Bangkok, Thailand

CONTRIBUTED RESEARCH PRESENTATIONS:

- 2017 Intraspecific competition between divergent *Bd* lineages
Integrated Research Challenges in Environmental Biology, Amphibian Declines: Tempe, Arizona
- 2016 Population genomics of hybridization in the amphibian-killing chytrid fungus (*Lightning Talk*)
Evolution 2016: Austin, Texas
- 2015 Amphibian chytrid in Brazil comprises both stable endemic and globally expanding lineages
Mycological Society of America: Edmonton, Alberta, Canada

- 2015 Amphibian-killing chytrid fungus in Brazil comprises both stable endemic and recently expanded populations
Evolution 2015: Guaruja, São Paulo, Brazil
- 2013 Population genetic structure of *Batrachochytrium dendrobatidis* in the hybrid zone of Brazil
Integrated Research Challenges in Environmental Biology, Amphibian Declines: Tempe, Arizona
- 2013 Pandemic and hybrid genotypes of the amphibian pathogen *Batrachochytrium dendrobatidis* in the southern Atlantic rainforest of Brazil (*Awarded best graduate student oral presentation*)
Mycological Society of America: Austin, Texas
- 2013 Genetics of Brazilian endemic and hybrid strains of *Batrachochytrium dendrobatidis* in Paraná
Conference on Chytridiomycosis in the Atlantic Forest of Brazil:
Universidade Estadual de Campinas, Campinas, São Paulo, Brazil
- 2010 The role of fungal survey and inventory studies in the Micronesia Biodiversity Project
Bay Area Conservation Biology Symposium: San Francisco, California

CONTRIBUTED RESEARCH POSTERS:

- 2014 Human activity and the spread of a new amphibian disease
Dow Environmental Sustainability Symposium: Ann Arbor, Michigan
- 2014 Spatio-temporal patterns of *Batrachochytrium dendrobatidis* infection in the native amphibian community of the Edwin S. George Biological Reserve, Livingston County, Michigan
Mycological Society of America: East Lansing, Michigan
- 2012 A new genus *Cryptomarasmius* proposed in the Physalacriaceae to accommodate members of *Marasmius* section *Hygrometrici*
Mycological Society of America: New Haven, Connecticut
- 2009 Phylogenetic relationships within the genus *Marasmius sensu stricto* inferred from ITS and nLSU
International Conference on Fungal Evolution and Charles Darwin:
Thailand Science Park, Pathumthani, Thailand
- 2007 Conservation of cystidial ultrastructure in *Suillus* species
Mycological Society of America: Baton Rouge, Louisiana

RESEARCH EXPERIENCE:

- 2012 - 2017 Ph.D. Dissertation Research – University of Michigan: Ecological genomics and population history of the amphibian-killing chytrid fungus, *Batrachochytrium dendrobatidis*
Advised by: Timothy Y. James
- 2011 Visiting Researcher – University of Maine: Field survey, isolation, and culture of *Batrachochytrium dendrobatidis*
Advised by: Joyce E. Longcore
- 2007 - 2010 M.S. Thesis Research – San Francisco State University: Molecular phylogenetics of the globally distributed mushroom genus *Marasmius*
Advised by: Dennis E. Desjardin
- 2006 - 2007 Research Technician – University of Minnesota: Assembling the Fungal Tree of Life Project
Principal Investigator: David J. McLaughlin

TEACHING EXPERIENCE:

- 2015 Graduate Student Instructional Mentor – University of Michigan
Teaching mentor for first-year Program in Biology graduate student instructors
- 2015 Graduate Student Instructor – University of Michigan
Honors College Core in Natural Science, Biology and Society
- 2011, 2013 Biology of Fungi Laboratory (*Course offered alternate years*)
- 2012 Genetics, Discussion Section
- 2012 Evolution, Discussion Section

- 2011 Lecturer and Laboratory Coordinator – Department of Biology, San Francisco State University
Introductory Biology Laboratory I
- 2008 - 2010 National Science Foundation Graduate K-12 Teaching Fellow / SEPAL K-12 Teaching Partner –
San Francisco Unified School District and San Francisco State University
Eighth Grade Physical Science, Horace Mann Middle School, San Francisco, California
- Graduate Teaching Assistant – San Francisco State University
- 2010 Science Concepts in Introductory Biology I
- 2010 The World of Plants Laboratory (*Introductory botany for non-majors*)
- 2007, 2008 Introductory Biology Laboratory II

FIELD EXPERIENCE:

- 2013 - 2015 Republic of Brazil
National Science Foundation; Catalyzing New International Collaborations: Into the
Heart of an Epidemic: a US-Brazil Collaboration for Integrative Studies of the
Amphibian-Killing Fungus in Brazil
- 2009 - 2011 Federated States of Micronesia
National Science Foundation; A Biodiversity Survey of Pohnpei and Kosrae Islands,
Federated States of Micronesia: Understanding the Impact of Anthropogenic Disturbance
on Plant, Fungal, and Stream Biodiversity
- 2008, 2011 Republic of Ecuador
National Geographic Society; Fungal Mimicry in the Deceptive Pollination of *Dracula*
Orchids in Bosque Protector Los Cedros, Provincia de Imbabura
- 2008 California, U.S.A.
United States Forest Service Assessment of FEMAT (Forest Ecosystem Management Assessment
Team) Strategy One Fungi: Tahoe National Forest, Plumas National Forest
- 2007 Minnesota, U.S.A.
Minnesota Department of Natural Resources County Biological Survey of Fungi

ACADEMIC & PROFESSIONAL SERVICE:

- 2014 - 2016 Graduate Student Representative: Education Committee, Mycological Society of America
- 2014 - 2015 Steering Committee: 10th and 11th Annual Early Career Scientists Symposium
University of Michigan: Ann Arbor, Michigan
- 2013 - 2015 Departmental Committee Member: Undergraduate Curriculum Committee
Department of Ecology & Evolutionary Biology, University of Michigan
- 2013 - 2015 Editorial Board Member: *Michigan Journal of Sustainability*
- 2013 Conference Session Chair: Concurrent Session on Fungal Genetics and Genomics
Mycological Society of America: Austin, Texas
- 2010 - 2011 Executive Council Member: Mycological Society of San Francisco

MANUSCRIPT REVIEW:

Molecular Ecology, Mycologia, PLoS ONE, Diseases of Aquatic Organisms, Transboundary and Emerging Diseases

PROFESSIONAL SOCIETIES:

- Since 2014 Ecological Society of America
- Since 2014 Genetics Society of America
- Since 2009 Society for the Study of Evolution
- Since 2006 Mycological Society of America

OUTREACH ACTIVITIES & MEDIA HIGHLIGHTS:

- 2016 Guest Speaker: Fungal Ecology, Biodiversity, and Identification, Seventh/Eighth Grade Science
Ann Arbor Open School, Ann Arbor, Michigan
- 2015 Volunteer Organizer and Field Trip Leader: D-Town Farms BioBlitz, biodiversity survey of
D-Town Urban Farms with local middle and elementary students in the Detroit Black Community
Food Security Network's Youth Development Program, Detroit, Michigan
- 2014 Organizer and Moderator: Workshop on applying to graduate school in the life sciences
Undergraduate Affairs and Curriculum Committee, Dept. of Ecology & Evolutionary Biology
University of Michigan, Ann Arbor, Michigan
- 2013 Volunteer Organizer and High School Field Trip Leader: Belle Isle BioBlitz, biodiversity survey
of Belle Isle Park, Detroit, Michigan with urban high school biology students
West International High School, Detroit, Michigan
- 2013 Radio Interview: "Detroit high schoolers explore wilder side of Belle Isle" Aired: Apr 2013
The Environment Report: Michigan Public Radio
- 2013 Guest Speaker: Ecosystems and Conservation Biology, Eighth Grade Science
Escola Municipal de Ensino Fundamental Jose Vieira, São Marcos, São Paulo State, Brazil
- 2012 Radio Interview: "Mushrooms glow in the dark in Micronesia" Aired: May 2012
The Pacific Beat Radio Programme: ABC Radio
- 2012 Invited Speaker: Mushrooms and the Micronesia Biodiversity Project
Monthly meeting of the Illinois Mycological Association, Chicago, Illinois
- 2011 Conservation Policy Workshop Organizer and Volunteer Speaker:
Workshop on protecting the critical upland forest habitat of the Micronesian Islands.
Kolonía City, Pohnpei State, Federated States of Micronesia
- 2011 Graduate Student Speaker: Habitat conservation in the Micronesian Islands
Monthly meeting of the Mycological Society of San Francisco, San Francisco, California
- 2011 Guest Columnist: MycoDigest - The amphibian-killing chytrid fungus.
Mycena News: The Monthly Newsletter of the Mycological Society of San Francisco
- 2007 - 2010 Educational Exhibit Organizer and Volunteer: Annual Bay Area Fungus Fair
Lawrence Hall of Science, University of California, Berkeley, Berkeley, California
Oakland Museum of California, Oakland, California
- 2010 Magazine Interview: "Shroomin' at the Fungus Fair" Issue: Dec 2010
San Francisco Bay Guardian
- 2010 Guest Columnist: MycoDigest - The mysterious *Cordyceps* mushroom.
Mycena News: The Monthly Newsletter of the Mycological Society of San Francisco

SPECIAL SKILLS & CERTIFICATIONS:

- 2017 Wilderness First Aid
Office of Environmental Health and Safety, University of California, Berkeley
- 2016 Preparing Future Faculty, Four-week Teaching and Pedagogy Seminar Course
Center for Research on Teaching and Learning, University of Michigan
- 2016 UCLA La Kretz Workshop in Conservation Genomics
University of California, Los Angeles La Kretz Center for California Conservation Science