

## CURRICULUM VITAE

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### THOMAS S. JENKINSON

Postdoctoral Research Fellow  
Department of Environmental Science, Management, and Policy  
University of California, Berkeley

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#### EDUCATION:

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

#### PROFESSIONAL EXPERIENCE:

- 2017 - *present* NSF Postdoctoral Research Fellow in Biology – 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

#### GRANT FUNDING & FELLOWSHIPS:

- |             |   |           |
|-------------|---|-----------|
| 2017 - 2019 | NSF Postdoctoral Research Fellowship in Biology (PRFB)<br>National Science Foundation   | \$138,000 |
| 2016        | Helen Olson Brower Memorial Fellowship in Environmental Studies<br>Department of Ecology and Evolutionary Biology, University of Michigan | \$15,580  |
| 2016        | NSF Doctoral Dissertation Improvement Grant (DDIG)<br>National Science Foundation   | \$20,150  |
| 2014        | Rackham Graduate Student Research Grant<br>Rackham Graduate School, University of Michigan  | \$3,000   |
| 2013 - 2015 | Dow Doctoral Sustainability Fellowship<br>Graham Environmental Sustainability Institute, University of Michigan                           | \$50,000  |
| 2012        | Ecology and Evolutionary Biology Block Grant for Research<br>Department of Ecology and Evolutionary Biology, University of Michigan       | \$2,896   |
| 2009        | Robert M. Maxwell Graduate Scholarship<br>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
2008	Harry D. Thiers Graduate Scholarship Mycological Society of San Francisco	\$1,000

## PUBLICATIONS:

O'Hanlon, S. J., Rieux, A., Farrer, R. A., Rosa, G. M., Waldman, B., Bataille, A., Kosch, T. A., Murray, K. A., Brankovics, B., Fumagalli, M., Martin, M. D., Wales, N., Alvarado-Rybak, M., Bates K. A., Berger, L., Böll, S., Brookes, L., Clare, F., Courtois, E. A., Cunningham, A. A., Doherty-Bone, T. M., Ghosh, P., Gower, D. J., Hintz, W. E., Höglund, J., **Jenkinson, T. S.**, Lin, C. F., Laurila, A., Loyau, A., Martel, A., Meurling, S., Miaud, C., Minting, P., Pasmans, F., Schmeller, D. S., Schmidt, B. R., Shelton, J. M. G., Skerratt, L. F., Smith, F., Soto-Azat, C., Spagnoletti, M., Tessa, G., Toledo, L. F., Valenzuela-Sánchez, A., Verster, R., Vörös, J., Webb, R. J., Wierzbicki, C., Wombwell, E., Zamudio, K. R., Aanensen, D. M., James, T. Y., Gilbert, M. T. P., Weldon, C., Bosch, J., Balloux, F., Garner, T. W. J. and M. C. Fisher. (2018) Recent Asian origin of chytrid fungi causing global amphibian declines. *Science* 360(6389): 261-267.

\* Cover article, and selected for a highlight in a Perspectives article in *Science*

Fisher, M. C., Ghosh, P., Shelton, J. M. G., Bates, K. A., Brookes, L., Wierzbicki, C., Rosa, G. M., Farrer, R. A., Aanensen, D. M., Alvarado-Rybak, M., Bataille, A., Berger, L., Böll, S., Bosch, J., Clare, F. C., Courtois, E. A., Crottini, A., Cunningham, A. A., Doherty-Bone, T. M., Gebresenbet, F., Gower, D. J., Höglund, J., James, T. Y., **Jenkinson, T. S.**, Kosch, T. A., Lambertini, C., Laurila, A., Lin, C. F., Loyau, A., Martel, A., Meurling, S., Miaud, C., Minting, P., Ndriantsoa, S., O'Hanlon, S. J., Pasmans, F., Rakotonanahary, T., Rabemananjara, F. C. E., Ribeiro, L. P., Schmeller, D. S., Schmidt, B. R., Skerratt, L., Smith, F., Soto-Azat, C., Tessa, G., Toledo, L. F., Valenzuela-Sánchez, A., Verster, R., Vörös, J., Waldman, B., Webb, R. J., Weldon, C., Wombwell, E., Zamudio, K. Z., Longcore, J. E. and T. W. J. Garner. (2018) Development and worldwide use of non-lethal, and minimal population-level impact, protocols for the isolation of amphibian chytrid fungi. *Scientific Reports* 8: 7772.

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:

- 2018 Center for Population Biology Seminar: University of California, Davis  
– Ecology, Evolution, and Conservation Biology Colloquium: San Francisco State University  
– Wildlife and Fisheries Conservation Biology Seminar: University of California, Berkeley
- 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, *Batrachochytrium dendrobatidis*: Geographic and  
genomic insights from the Atlantic Forest of Brazil  
Symposium on: Fungal Diseases of Aquatic Animals,  
10<sup>th</sup> 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
- 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
- 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 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: Pathumthani, Thailand
- 2007 Conservation of cystidial ultrastructure in *Suillus* species  
Mycological Society of America: Baton Rouge, Louisiana

### RESEARCH EXPERIENCE:

- 2017 - present Postdoctoral Research – University of California, Berkeley: Historical phylogeography of  
*Batrachochytrium dendrobatidis* using herpetological museum collections  
Advised by: Erica Bree Rosenblum
- 2012 - 2017 Ph.D. Dissertation Research – University of Michigan: Ecological genomics of *Batrachochytrium*  
*dendrobatidis* in the Brazilian Atlantic Forest  
Advised by: Timothy Y. James
- 2011 Visiting Researcher – University of Maine: Field survey, isolation, and culture of  
*Batrachochytrium dendrobatidis*  
Hosted by: Joyce E. Longcore
- 2007 - 2010 M.S. Thesis Research – San Francisco State University: Molecular phylogenetics of the  
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 to first-year Program in Biology graduate student instructors*  
Graduate Student Instructor – University of Michigan
- 2015 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
- Guest lectures Global Change Biology: University of California, Berkeley  
Biology of Fungi, Biology and Society, Science and Politics of Global Change: University of  
Michigan

### 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: 10<sup>th</sup> and 11<sup>th</sup> 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, Diseases of Aquatic Organisms, Transboundary and Emerging Diseases, PLoS ONE*

#### **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:**

- 2018            Curriculum Development and Guest Instructor: Nature notebooks, making hypotheses about  
organism form and function, Fourth/Fifth Grade Science, Berkeley Unified School District,  
Berkeley, California
- Volunteer Organizer and Activity Facilitator: Save the Frogs Day, local elementary school  
students visit the Museum of Vertebrate Zoology to spend a day learning about amphibian  
biodiversity and conservation. University of California, Berkeley, California
- 2016            Guest Speaker: Fungal ecology, biodiversity, and mushroom 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 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
- Radio Interview: "Detroit high schoolers explore wilder side of Belle Isle" Aired: Apr 2013  
The Environment Report: Michigan Public Radio

- 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
- 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.  
Kolonia City, Pohnpei State, Federated States of Micronesia
- Graduate Student Speaker: Habitat conservation in the Micronesian Islands  
Monthly meeting of the Mycological Society of San Francisco, San Francisco, California
- 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 Alternative Weekly Interview: “Shroomin' at the Fungus Fair” Issue: Dec 2010  
San Francisco Bay Guardian
- Guest Columnist: MycoDigest - The mysterious *Cordyceps* mushroom.  
*Mycena News*: The Monthly Newsletter of the Mycological Society of San Francisco

## RESEARCH MENTORSHIP:

\* Indicates coauthorship on research publications

- 2017 Siena McKim: University of Michigan Undergraduate Student in Art and Design, and Program in the Environment, Class of 2019; *Microscopy and scientific illustration*
- 2017 Rebecca Clemmons: University of Michigan Undergraduate Student in Ecology and Evolutionary Biology, Class of 2019; *Molecular biology techniques, laboratory animal care*
- 2015 - 2016 Elisabeth Oeller: University of Michigan Undergraduate Student in Ecology and Evolutionary Biology, Class of 2016; *Microbial culture, laboratory animal care*
- 2014 - 2015 Anyelet Valencia-Aguilar \*: Federal University of Alagoas (Alagoas, Brazil) Masters Student in Zoology, M.S. 2015; *Field isolation of wild Batrachochytrium strains, microbial culture*
- 2013 - 2015 Carolina Lambertini \*: University of Campinas (São Paulo, Brazil) Masters Student in Ecology, M.S. 2015; *Field isolation of wild Batrachochytrium strains, population genetics*
- 2012 - 2013 Clarisse Betancourt-Román \*: University of Michigan Masters Student in Ecology and Evolutionary Biology, M.S. 2013; *Field isolation of wild Batrachochytrium strains, microbial culture*
- 2011 - 2012 Lindsay Isenhardt: University of Michigan Undergraduate Student in Ecology and Evolutionary Biology, Class of 2013; *Field survey of wildlife pathogen infection, molecular diagnostics*
- 2009 - 2010 Rainer Schaefer \*: San Francisco State University Undergraduate Student in Biology, Class of 2010; *Molecular biology techniques, phylogenetic analysis*

## REFERENCES:

Erica Bree Rosenblum ([rosenblum@berkeley.edu](mailto:rosenblum@berkeley.edu))

Associate Professor

Department of Environmental Science, Policy, and Management,

Museum of Vertebrate Zoology

University of California, Berkeley

Timothy Y. James ([tyjames@umich.edu](mailto:tyjames@umich.edu))

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Arthur F. Thurnau Professor, and Associate Chair for Graduate Studies

Department of Ecology and Evolutionary Biology,

Department of Molecular, Cellular, and Developmental Biology

University of Michigan