CURRICULUM VITAE

THOMAS S. JENKINSON

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

130 Mulford Hall #3114
University of California, Berkeley
Berkeley, CA 94720-3114, U.S.A.

Email: *tsjenkinson@berkeley.edu* | Ph: +1 510-643-4554 | Web: *thomasjenkinson.com*

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 in Biology – University of California, Berkeley
2011	Lecturer and Laboratory 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	Meredith Blackwell 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) 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 Graduate 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
2008	Harry D. Thiers Graduate Scholarship Mycological Society of San Francisco	$1,000

PUBLICATIONS:

10) 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.

9) 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*

8) 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.

7) **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*

6) 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.

5) 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.

4) **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.

3) 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.

2) **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.

1) 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.

PUBLICATIONS IN REVIEW:

Jenkinson, T. S., Rodriguez, D., Clemons, R. A., Michelotti, L. A., Zamudio, K. R., Toledo, L. F., Longcore, J. E. and T. Y. James. (**2018**) Globally invasive genotypes of the amphibian chytrid outcompete an enzootic lineage in coinfections. *Proceedings of the Royal Society, Series B: Biological Sciences* (In Review).

Salla, R. F., Rizzi-Possignolo, G. M, Oliveira, C. R., Lambertini, C., Franco-Belussi, L., da Silva Leite, D., Silva-Zacarin, E. C. M., Abdalla, F. C., **Jenksinson, T. S.**, Toledo, L. F. and Jones-Costa, M. (**2018**) The impact of chytridiomycosis on the cardiac function of anurans: sensitive vs. tolerant species. *PeerJ – the Journal of Life and Environmental Sciences* (In Review).

Ribeiro, L. P., Carvalho, T., **Jenkinson, T. S.**, da Silva Leite, D., Becker, C. G., James, T. Y. and L. F. Toledo. (**2018**) Bullfrog farms increase disease pressure by releasing pathogenic fungal zoospores into the environment. *Conservation Biology* (In Review).

INVITED RESEARCH PRESENTATIONS:

2018	Center for Population Biology Seminar: University of California, Davis
–	Ecology, Evolution, and Conservation Biology Colloquium: San Francisco State University
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, 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
–	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 Estudal 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:

2018 Genome evolution in a globally emerging amphibian pathogen
2nd Joint Congress on Evolutionary Biology: Montpellier, France

– Ecological genomics of divergence and hybridization in the amphibian chytrid
11th International Mycological Congress: San Juan, Puerto Rico

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* (Basidiomycota)
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

2009	Spring Fungi of the Sierra Nevada (*SFSU Sierra Nevada Field Campus*)
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:

	Republic of Brazil
2013 - 2015	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, 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, Bay Area Scientists in Schools and 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

2018	Chellam Nayar: University of California, Berkeley Undergraduate Student in Environmental Science, Class of 2019; *Molecular biology, pathogen population genetics*
2018	Rebecca Salcedo: University of California, Berkeley Undergraduate Student in Molecular Environmental Biology, Class of 2019; *Molecular biology, molecular diagnostics*
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, 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 Isenhart: 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, phylogenetic analysis*

REFERENCES:

Erica Bree Rosenblum (**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**)
Lewis E. & Elaine P. Wehmeyer Associate Professor, and Curator of Fungi
Department of Ecology and Evolutionary Biology
University of Michigan

Kelly R. Zamudio (**krz2@cornell.edu**)
Goldwin Smith Professor
Department of Ecology and Evolutionary Biology
Cornell University

Patricia J. Wittkopp (**wittkopp@umich.edu**)
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

Kimberly D. Tanner (**kdtanner@sfsu.edu**) (Teaching Reference)
Professor, and Director of the Science Education Partnership and Assessment Laboratory
Department of Biology
San Francisco State University