CURRICULUM VITAE

THOMAS S. JENKINSON

Assistant Professor
Department of Biological Sciences
California State University, East Bay

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EDUCATION:

2017	Ph.D. in Ecology and Evolutionary Biology University of Michigan, Ann Arbor, Michigan
2011	M.S. in Biology San Francisco State University, San Francisco, California
2005	B.S. in Biology Oregon State University, Corvallis, Oregon

PROFESSIONAL APPOINTMENTS:

2021 - *present*	Assistant Professor – California State University, East Bay
2020 - 2021	Postdoctoral Research Associate – University of California, Davis
2019 - 2020	Lecturer – University of California, Berkeley
2017 - 2020	NSF Postdoctoral Research Fellow – University of California, Berkeley
2011	Lecturer and Laboratory Coordinator – 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	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	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	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:

19) Lambertini, C., Becker, C. G., Belasen, A. M., Valencia-Aguilar, A., Nunes-de-Almeida, C. H. L., Betancourt Román, C. M., Rodriguez, D., da Silva Leite, D., Oliveira, I. S., Gasparini, J. L. R., Ruggeri, J., Mott, T., **Jenkinson, T. S.**, James, T. Y., Zamudio, K. R. and L. F. Toledo. (**2021**) Biotic and abiotic determinants of *Batrachochytrium dendrobatidis* infections in amphibians of the Brazilian Atlantic Forest. *Fungal Ecology* 49: 100995.

18) Ruthsatz, K., Lyra, M. L., Lambertini, C., Belasen, A. M., **Jenkinson, T. S.**, da Silva Leite, D., Becker, C. G., Haddad, C. F. B., James, T. Y., Zamudio, K. R., Toledo, L. F. and M. Vences. (**2020**) Skin microbiome correlates with bioclimate and *Batrachochytrium dendrobatidis* infection intensity in Brazil's Atlantic Forest treefrogs. *Scientific Reports* 10: 22311.

17) Burrowes, P. A., James, T. Y., **Jenkinson, T. S.** and I. De la Riva (**2020**) Genetic analysis of post-epizootic amphibian chytrid strains in Bolivia: Adding a piece to the puzzle. *Transboundary and Emerging Diseases* 67(5): 2163-2171.

16) Samarasinghe, H.*, You, M.*, **Jenkinson, T. S.***, Xu, J. and T. Y. James. (**2020**) Hybridization facilitates adaptive evolution in two major fungal pathogens. *Genes* 11(1): 101-121.
* Authors contributed equally to this work

15) Hernández-Gómez, O., Byrne, A. Q., Gunderson, A. R. **Jenkinson, T. S.**, Noss, C. F., Rothstein, A. P., Womack, M. C. and E. B. Rosenblum. (**2020**) Invasive vegetation affects amphibian skin microbiota and body condition. *PeerJ* 8: e8549.

14) Ribeiro, L. P., Carvalho, T., Becker, C. G., **Jenkinson, T. S.**, Da Silva Leite, D., James, T. Y., Greenspan, S. E. and L. F. Toledo. (**2019**) Bullfrog farms release virulent zoospores of the frog-killing fungus into the natural environment. *Scientific Reports* 9: 13422.

13) Becker, C. G., Bletz, M. C., Greenspan, S. E., Rodriguez, D., Lambertini, C., **Jenkinson, T. S.**, Guimarães, P. R., Assis, A. P. A., Geffers, R., Jarek, M., Toledo, L. F., Vences, M. and C. F. B. Haddad (**2019**) Low-load pathogen spillover predicts shifts in skin microbiome and survival of a terrestrial-breeding amphibian. *Proceedings of the Royal Society B* 286: 20191114.

12) **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 B* 285: 20181894.

11) 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., **Jenkinson, T. S.**, Toledo, L. F. and M. Jones-Costa (**2018**) The impact of chytridiomycosis on the cardiac function of anurans: sensitive vs. tolerant species. *PeerJ* 6: e5891.

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.

INVITED RESEARCH PRESENTATIONS:

2020	Ecology and Evolution Seminar: Stanford University
2019	Institute for Biodiversity Science and Sustainability Seminar: California Academy of Sciences
–	Department of Biological Sciences Seminar: California State University, East Bay
–	Department of Biology Seminar: University of San Francisco
2018	Center for Population Biology Seminar: University of California, Davis
–	Ecology, Evolution, and Conservation Biology Colloquium: San Francisco State University
2017	Society for the Study of Evolution Spotlight Session: Sex in the Wild Evolution 2017: Portland, Oregon

2016 Symposium on: What can population genomics of pathogenic fungi tell us about emergence?
Mycological Society of America: Berkeley, California

2015 Institute of Health and Biological Sciences Seminar,
Universidade Federal de Alagoas, Maceió, Alagoas, Brazil

2014 Symposium on: Fungal Diseases of Aquatic Animals,
10th International Mycological Congress: Bangkok, Thailand

CONTRIBUTED RESEARCH PRESENTATIONS:

2019 Hybridization and patterns of inheritance in the amphibian chytrid fungus
Evolution 2019: Providence, Rhode Island

– Cryptic genetic diversity and hybridization between *Batrachochytrium dendrobatidis* strains
Mycological Society of America: Minneapolis, Minnesota

2018 Anthropogenic hybridization in *Batrachochytrium dendrobatidis*
Integrated Research Challenges in Environmental Biology, Amphibian Declines: Tempe, Arizona

2017 Intraspecific competition between divergent *Batrachochytrium dendrobatidis* lineages
Integrated Research Challenges in Environmental Biology, Amphibian Declines: Tempe, Arizona

2016 Population genomics of hybridization in the amphibian-killing chytrid fungus
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 southeastern 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 **(*Best Graduate Student Oral Presentation Award*)**
Mycological Society of America: Austin, Texas

– 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: Pathumthani, Thailand

2007 Conservation of cystidial ultrastructure in *Suillus* species
Mycological Society of America: Baton Rouge, Louisiana

TEACHING EXPERIENCE:

Instructor of Record: – University of California, Berkeley

2019 - 2020 Global Change Biology

Graduate Student Instructor: – University of Michigan:

2015 Honors College Core in Natural Science; Biology and Society, Discussion Section
2011, 2013 Biology of Fungi Laboratory
2012 Genetics, Discussion Section
2012 Evolution, Discussion Section

Lecturer and Laboratory Coordinator: – San Francisco State University

2011 Introductory Biology

National Science Foundation Graduate K-12 Teaching Fellow:

2008 - 2010 Eighth Grade Physical Science – Horace Mann Middle School, San Francisco, California

Graduate Teaching Assistant: – San Francisco State University:

2010 Science Concepts in Introductory Biology
2010 The World of Plants Laboratory
2009 Spring Fungi of the Sierra Nevada (*Field Course*)
2007, 2008 Introductory Biology Laboratory

FIELD EXPERIENCE:

Republic of Brazil

2018 National Science Foundation, Historical Dynamics of an Epidemic Invasion (*Principal Investigator*)

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

Federated States of Micronesia

2009 - 2011 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

Republic of Ecuador

2008, 2011 National Geographic Society, Fungal Mimicry in the Deceptive Pollination of *Dracula* Orchids in Bosque Protector Los Cedros, Provincia de Imbabura

California, U.S.A.

2008 United States Forest Service Assessment of FEMAT (Forest Ecosystem Management Assessment Team) Strategy One Fungi: Tahoe National Forest and Plumas National Forest

Minnesota, U.S.A.

2007 Minnesota Department of Natural Resources County Biological Survey of Fungi

ACADEMIC & PROFESSIONAL SERVICE:

2019 - 2020 Ad Hoc Grant Proposal Review: Population and Community Ecology Cluster, Division of Environmental Biology (DEB), National Science Foundation

2020 Grant Proposal Review: Graduate Student Research Grants, Society of Systematic Biologists

2014 - 2016 Graduate Student Representative: Education Committee, Mycological Society of America

2014 - 2015 Steering Committee: 10^{th} and 11^{th} 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:

Journals:	*PLoS Pathogens, Molecular Ecology, Nature Communications, ISME Communications, Heredity, Frontiers of Biogeography, Diseases of Aquatic Organisms, Transboundary and Emerging Diseases, Mycologia, PLoS ONE*
Textbooks:	*Global Change Biology* (printing in 2022), Oxford University Press

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 - 2019	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
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
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
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
2007 - 2010	Educational Exhibit Organizer and Volunteer: Annual Bay Area Fungus Fair Lawrence Hall of Science, University of California, Berkeley, Berkeley, California

RESEARCH MENTORSHIP:

2019	Avalon Cook: University of California, Berkeley Undergraduate Student in Conservation and Natural Resources, Class of 2020
2018 - 2019	Chellam Nayar: University of California, Berkeley Undergraduate Student in Environmental Science, Class of 2019; *Co-supervisor: Senior thesis on pathogen population genetics*
2018 - 2019	Rebecca Salcedo: University of California, Berkeley Undergraduate Student in Molecular Environmental Biology, Class of 2019
2017	Siena McKim: University of Michigan Undergraduate Student in Art and Design, and Program in the Environment, Class of 2019; *Project: Microscopy and scientific illustration*
2017	Rebecca Clemmons: University of Michigan Undergraduate Student in Ecology and Evolutionary Biology, Class of 2019
2015 - 2016	Elisabeth Oeller: University of Michigan Undergraduate Student in Ecology and Evolutionary Biology, Class of 2016
2011 - 2012	Lindsay Isenhart: University of Michigan Undergraduate Student in Ecology and Evolutionary Biology, Class of 2013
2009 - 2010	Rainer Schaefer: San Francisco State University Undergraduate Student in Biology, Class of 2010