John Everett Parkinson, Ph.D.

Curriculum Vitae

2024-06-14

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EDUCATION

2014 Ph.D., Biology, Pennsylvania State University

2009 B.Sc. (*summa cum laude*), Marine Biology, University of Miami Rosenstiel School

PROFESSIONAL APPOINTMENTS

2019-present Assistant Professor, University of South Florida, Department of Integrative Biology

2018-2019 Research Scientist, SECORE International, Bahamas Coral Restoration

2016-2018 Postdoctoral Scholar, Oregon State University, Department of Integrative Biology

2015-2016 Postdoctoral Fellow, University of the Ryukyus, Department of Marine Biology

2014-2015 Postdoctoral Scholar, Pennsylvania State University, Department of Biology

GRANTS

Awarded Grants

2024 National Museum of Natural History ADCS Grant: Phylogenomics of coral symbiosis: testing an approach to target-capture ultraconserved elements in coral photosymbionts; 2024-2025 (Current); Co-PI; $0 (Total: $7,500; all funds to collaborator)

2023 Sea of Change Conservation Priority Grant [Awarded to M. Gamache (PhD. Student)]; 2023-2024 (Current); PI; $9,600

2023 The eDNA Collaborative Microgrant Program [Awarded to M. Gamache (PhD. Student)]; 2023-2024; PI; $1,170

2022 Phycological Society of America Grant-in-Aid of Research: Whole-genome DNA methylation survey of Symbiodiniaceae diversity and impacts from heat stress and symbiotic state [Awarded to L. Walling (PhD. Student)]; 2022-2023; PI; $1,186

2021 NSF OCE 2127508: Collaborative Research: Building consensus around quantification and interpretation of Symbiodiniaceae diversity; 2021-2023; PI; $28,222 (Total: $143,032)

2021 Phycological Society of America Grant-in-Aid of Research: Epigenetic regulation of transcript variants involved in the heat stress response of coral symbionts (family Symbiodiniaceae) [Awarded to R. Gonzalez-Pech (Postdoc)]; 2021-2022; PI; $2,400

2020 NSF OCE 2023187: Collaborative Research: Investigating the genomic basis of key performance traits to quantify the evolutionary potential of coral populations under climate change; 2020-2025 (Current); PI; $273,510 (Total: $1,329,244)

2020 Gordon and Betty Moore Foundation: The Coral Symbiosis Genome Project; 2020-2023; Co-PI; $0 (Total: $639,854; all funds to sequencing facility)

2020 USF New Researcher Grant: The genomic and epigenomic bases of thermal tolerance in coral symbionts (family Symbiodiniaceae); 2020-2022; PI; $10,000

2017 Japan Society for the Promotion of Science ORCHIDS Project; 2017-2018; Co-PI; $2,700

2017 Phycological Society of America Grant-in-Aid of Research; 2017-2018; PI; $2,000

2015 Japan Society for the Promotion of Science Research Funds; 2015-2016; Co-PI; $10,000

2015 NSF RAPID Grant OCE1516763; 2015-2018; Contributing Author; $138,816

2014 NOAA Coral Reef Conservation Grant NA14NOS4820085; 2014-2016; Lead Author; $68,999

PEER-REVIEWED PUBLICATIONS

Google Scholar Metrics (2024-06-14)

Article Count = 30

Article Citations = 3320

h-Index = 22

i10-Index = 27

Article Authorship Key

[*] JEP Corresponding Author

[^] JEP Senior Author

[&] Graduate Student (JEP Lab)

[%] Postdoctoral Researcher (JEP Lab)

Published Articles

2024 **Parkinson JE^***, Peixoto RS, Voolstra (in press) Microbial compartments of the coral holobiont – Symbiodiniaceae. In: Coral Reef Microbiome, eds. Peixoto RS, Voolstra CR. *Springer*

2023 Davies SW, **Gamache MH[&]**, Howe-Kerr LI, Kriefall NG, Baker AC, Banaszak AT, Bay LK, Bellantuono AJ, Bhattacharya D, Chan CX, Claar DC, Coffroth MA, Cunning R, Davy SK, del Campo J, Diaz-Almeyda EM, Frommlet JC, Fuess LE, Gonzalez-Pech RA, Goulet TL, Hoadley KD, Howells EJ, Hume BCC, Kemp DW, Kenkel CD, Kitchen SA, LaJeunesse TC, Lin S, McIlroy SE, McMinds R, Nitschke MR, Oakley CA, Peixoto RS, Prada C, Putnam HM, Quigley KM, Reich HG, Reimer JD, Rodriguez-Lanetty M, Rosales SM, Saad OS, Sampayo EM, Santos SR, Shoguchi E, Smith EG, Stat M, Stephens TG, Strader ME, Suggett DJ, Swain TD, Tran C, Traylor-Knowles N, Voolstra CR, Warner ME, Weis VM, Wright RM, Xiang T, Yamashita H, Ziegler M, Correa AMS, **Parkinson JE^*** (2023) Building consensus around the assessment and interpretation of Symbiodiniaceae diversity. *PeerJ* 11:e15023 doi: 10.7717/peerj.15023

2022 **Parkinson JE^***, Tang SL, Denis V (2022) Editorial: Variance matters: Individual differences and their consequences for natural selection within and among coral holobionts. *Frontiers in Ecology and Evolution* 10:977844 doi: 10.3389/fevo.2022.977844

2021 Cunning R, Parker KE, Johnson-Sapp K, Karp RF, Wen AD, Williamson OM, Bartels E, D'Alessandro M, Gilliam DS, Hanson G, Levy J, Lirman D, Maxwell K, Million WC, Moulding AL, Moura A, Muller EM, Nedimyer K, Reckenbeil B, van Hooidonk R, Dahlgren C, Kenkel C, **Parkinson JE**, Baker AC (2021) Census of heat tolerance among Florida's threatened staghorn corals finds resilient individuals throughout existing nursery populations. *Proceedings of the Royal Society B* 288: 20211613 doi: 10.1098/rspb.2021.1613

2021 Voolstra CR, Suggett DJ, Peixoto R, **Parkinson JE**, Quigley K, Silveira C, Sweet M, Muller EM, Barshis DJ, Bourne DG, Aranda M (2021) Extending the natural adaptive capacity of coral holobionts to survive climate change. *Nature Reviews: Earth and the Environment* 2:747-762 doi: 10.1038/s43017-021-00214-3

2021 Voolstra CR, Quigley K, Davies SW, **Parkinson JE**, Peixoto RS, Aranda M, Baker AC, Barno A, Barshis DJ, Benzoni F, Bonito V, Bourne D, Buitrago-Lopez C, Bridge T, Chan CX, Combosch DJ, Craggs J, Frommlet JC, Herrera S, Quattrini AM, Rothig T, Reimer JD, Rubio-Portillo E, Suggett D, Villela H, Ziegler M, Sweet M (2021) Consensus guidelines for advancing coral holobiont genome and specimen voucher deposition. *Frontiers in Marine Science* 8:701784 doi: 10.3389/fmars.2021.701784

2021 Fujiwara Y, Kawamura I, Reimer JD, **Parkinson JE^*** (2021) Zoantharian endosymbiont dynamics during a stress event. *Frontiers in Microbiology* 12:674026 doi: 10.3389/fmicb.2021.674026

2020 Parker KE, Ward J, Eggleston E, Fedorov E, **Parkinson JE**, Dahlgren C, Cunning R (2020) Characterization of a thermally tolerant *Orbicella faveolata* reef in Abaco, The Bahamas. *Coral Reefs* 39:675-685 doi: 10.1007/s00338-020-01948-0

2020 Tivey TR, **Parkinson JE**, Weis VW (2020) Host and symbiont cell cycle coordination is mediated by symbiotic state, nutrition, and partner identity in a model cnidarian-dinoflagellate symbiosis. *mBio* 11:e02626-19 doi: 10.1128/mBio.02626-19

2020 Kavousi J, Denis V, Sharp V, Reimer JD, Nakamura T, **Parkinson JE^*** (2020) Unique combinations of coral host and algal symbiont genotypes reflect intraspecific variation in heat stress responses among colonies of the reef-building coral, *Montipora digitata*. *Marine Biology* 167:1-5 doi: 10.1007/s00227-019-3632-z

2020 Tivey TR, **Parkinson JE**, Mandelare PE, Adpressa DA, Peng W, Dong X, Mechref Y, Weis VM, Loesgen S (2020) N-linked surface glycan biosynthesis, composition, inhibition, and function in cnidarian-dinoflagellate symbiosis. *Microbial Ecology* 80:223-236 doi: 10.1007/s00248-020-01487-9

2020 **Parkinson JE**, Baker AC, Baums IB, Davies SW, Grottoli AG, Kitchen SA, LaJeunesse TC, Matz MV, Miller MW, Shantz AA, Kenkel CD (2020) Molecular tools for coral reef restoration: beyond biomarker discovery. *Conservation Letters* e12687 doi: 10.1111/conl.12687

2019 Baums IB, Baker AC, Davies SW, Grottoli AG, Kenkel CD, Kitchen SA, Kuffner IB, LaJeunesse TC, Matz MV, Miller MW, **Parkinson JE**, Shantz AA (2019) Considerations for maximizing the adaptive potential of restored coral populations in the western Atlantic. *Ecological Applications* e01978. doi: 10.1002/eap.1978

2019 Gabay Y, **Parkinson JE**, Wilkinson SP, Weis VM, Davy SK (2019) Symbiont uptake in a model cnidarian-dinoflagellate symbiosis under heat stress: specificity supersedes acquisition of thermotolerant symbionts. *ISME Journal* 13:2489-2499. doi: 10.1038/s41396-019-0429-5

2018 LaJeunesse TC, **Parkinson JE***, Gabrielson PW, Jeong HJ, Reimer JD, Voolstra CR, Santos SR (2018). Systematic revision of Symbiodiniaceae highlights the antiquity and diversity of coral endosymbionts. *Current Biology* 28:2570-2580. doi: 10.1016/j.cub.2018.07.008

2018 **Parkinson JE***, Tivey TR, Mandelare PE, Adpressa DA, Loesgen S, Weis VM (2018) Subtle differences in symbiont cell surface glycan profiles do not explain species-specific colonization rates in a model cnidarian-algal symbiosis. *Frontiers in Microbiology* 9:842. doi: 10.3389/fmicb.2018.00842

2018 **Parkinson JE***, Bartels E, Devlin-Durante MK, Lustic C, Nedimyer K, Schopmeyer S, Lirman D, LaJeunesse TC, Baums IB (2018) Extensive transcriptional variation poses a challenge to thermal stress biomarker development for endangered corals. *Molecular Ecology* 27:1103-1119. doi: 10.1111/mec.14517

2017 Noda H, **Parkinson JE**, Yang SY, Reimer JD (2017) A preliminary survey of zoantharian endosymbionts shows high genetic variation over small geographic scales on Okinawa-jima Island, Japan. *PeerJ* 5:e3740. doi: 10.7717/peerj.3740

2017 Grupstra CGB, Coma R, Ribes M, Leydet KB, **Parkinson JE**, McDonald K, Catlla M, Voolstra CR, Hellberg ME, Coffroth MA (2017) Evidence for coral range expansion accompanied by reduced diversity of *Symbiodinium* genotypes. *Coral Reefs* 36:981-985. doi:10.1007/s00338-017-1589-2

2017 Reimer JD, Herera M, Gatins R, Roberts MB, **Parkinson JE**, Berumen ML (2017) Latitudinal variation in the symbiotic dinoflagellate *Symbiodinium* of the common reef zoantharian *Palythoa tuberculosa* on the Saudi Arabian coast of the Red Sea. *Journal of Biogeography* 44:661-673. doi:10.1111/jbi.12795

2016 Kavousi J, **Parkinson JE**, Nakamura T (2016) Combined ocean acidification and low temperature stressors cause coral mortality. *Coral Reefs* 35:903-907. doi:10.1007/s00338-016-1459-3

2016 **Parkinson JE***, Yang SY, Kawamura I, Byron G, Todd P, Reimer J (2016) A citizen science approach to monitoring bleaching in the zoantharian *Palythoa tuberculosa*. *PeerJ* 4:e1815. doi:10.7717/peerj.1815

2016 **Parkinson JE***, Baumgarten S, Michell CT, Baums IB, LaJeunesse TC, Voolstra CR (2016) Gene expression variation resolves species and individual strains among coral-associated dinoflagellates within the genus *Symbiodinium*. *Genome Biology and Evolution* 8:665-680. doi:10.1093/gbe/evw019

2015 **Parkinson JE***, Banaszak AT, Altman NS, LaJeunesse TC, Baums IB (2015) Intraspecific diversity among partners drives functional variation in coral symbioses. *Scientific Reports* 5:15667. doi:10.1038/srep15667

2015 **Parkinson JE***, Coffroth MA, LaJeunesse TC (2015) New species of Clade B *Symbiodinium* (Dinophyceae) from the greater Caribbean belong to different functional guilds: *S. aenigmaticum* sp. nov., *S. antillogorgium* sp. nov., *S. endomadracis* sp. nov., and *S. pseudominutum* sp. nov. *Journal of Phycology*. 51:850-858. doi:10.1111/jpy.12340

2014 **Parkinson JE**, Baums IB (2014) The extended phenotypes of marine symbioses: ecological and evolutionary consequences of intraspecific genetic diversity in coral-algal associations. *Frontiers in Microbiology* 5:445. doi:10.3389/fmicb.2014.00445

2014 LaJeunesse TC, Wham D, Pettay DT, **Parkinson JE**, Keshavmurthy S, Chen C (2014) Ecologically differentiated, thermally tolerant endosymbionts in the dinoflagellate genus *Symbiodinium* (Dinophyceae) are different species. *Phycologia* 53(4):305-319. doi:10.2216/13-186.1

2014 Cooper WT, Lirman D, Porter M, **Parkinson JE**, Herlan J, McManus JW (2014) Assessing techniques to improve early post-settlement survivorship of corals for in situ restoration. *Bulletin of Marine Science* 90:651-664. doi:10.5343/bms.2013.1020

2013 Baums IB, Devlin-Durante MK, Polato NR, Xu D, Giri S, Altman NS, Ruiz D, **Parkinson JE**, Boulay JN (2013) Genotypic variation influences reproductive success and thermal stress tolerance in the reef building coral *Acropora palmata*. *Coral Reefs* 32(3):703-717. doi: 10.1007/s00338-013-1012-6

2012 LaJeunesse TC, **Parkinson JE**, Reimer JD (2012) A genetics-based description of *Symbiodinium minutum* sp. nov. and *S. psygmophilum* sp. nov. (Dinophyceae), two dinoflagellates symbiotic with Cnidaria. *Journal of Phycology* 48(6):1380-1391. doi:10.1111/j.1529-8817.2012.01217.x

FELLOWSHIPS

2022	Visiting Researcher Award: University of the Ryukyus, Japan
2020	Visiting Professor Award: St. George's University, Grenada (cancelled; COVID-19)
2015-2016	Japan Society for the Promotion of Science Postdoctoral Fellowship
2009-2014	National Science Foundation Graduate Research Fellowship
2009-2010	Pennsylvania State University Graduate Fellowship

AWARDS AND HONORS

2021 USF Publications Council Award

2021 Sigma Xi Induction

2020 Top 15 Coral Reef Research Contributions by ECO Magazine (Baums et al. 2019)

2016 Tyge Christensen Prize (Best paper published in *Phycologia* in 2014; Coauthor)

2015 Best Undergraduate Poster (44th Benthic Ecology Meeting; Coauthor)

2010 Best Poster: Coral Reef Restoration Session (39th Benthic Ecology Meeting)

2009 Braddock Research Award (Pennsylvania State University)

INVITED SEMINARS

2023 Harnessing microbial genomics to enhance coral restoration. University of Arizona, Tucson, AZ; October 30

2023 A tale of two symbionts: genomic insights into coral- and clam-associated dinoflagellates. Okinawa Institute of Science and Technology, Okinawa, Japan (virtual); March 16

2023 A tale of two symbionts: genomic insights into coral- and clam-associated dinoflagellates. Whitney Laboratory for Marine Bioscience, University of Florida, St. Augustine, FL; February 26

2022 Quantifying the efficacy of coral restoration with microbial DNA and metazoan eDNA. University of the Ryukyus, Okinawa, Japan; December 19

2022 Gradual molecular evolution underpins speciation among coral-associated dinoflagellates within the family Symbiodiniaceae. California State University—Chico, Chico, CA; February 25

2019 Coral-algal symbioses: evolution in the Antrhopocene. USGS/University of South Florida (College of Marine Science), St. Petersburg, FL; September 12

2019 Coral restoration using sexual coral reproduction. Cape Eleuthera Institute, Eleuthera, The Bahamas; June 20

2019 Coral restoration using sexual coral reproduction. Westland Hialeah High School, Hialeah, Florida; April 26

2018 Developing molecular tools to enhance coral restoration. Environmental Protection Agency Gulf Ecology Division, Pensacola, FL; October 11

2018 Developing molecular tools to enhance coral restoration. Oregon State University Hatfield Marine Science Center, Newport, OR; August 2

2018 Coral biomarkers: the good, the bad, and the ugly. Coral Reef Consortium Science Working Group Meeting, State College, PA; April 27

2018 Glycan-lectin interactions and marine symbiosis dynamics. University of the Ryukyus, Okinawa, Japan; March 8

2018 Marine symbiosis analysis in R: practical applications. University of the Ryukyus, Okinawa, Japan; March 8

2018 Molecular handshakes: glycan-lectin interactions in coral-algal symbioses. University of Victoria—Wellington, Wellington, New Zealand; February 15

2017 Symbiotic sea anemones: model organisms for studying impacts of climate change. Walla Walla University Rosario Beach Marine Laboratory, Anacortes, WA; July 19

2016 What genetics can tell us about how to conserve and restore threatened coral. NOAA Workshop on Caribbean Coral Restoration, Fort Lauderdale, FL; November 9

2015 Gene expression variation resolves species and individual strains among coral-associated dinoflagellates within the genus *Symbiodinium*. Centre of Marine Science of the University of Queensland, Brisbane, Australia; September 17

2015 *Symbiodinium* species diversity: how deep does the rabbit hole go? Okinawa Institute of Science and Technology, Okinawa, Japan; May 11

2014 Partner genotype interactions in corals: a focus for restoration? Coral Traits Workshop, Florida Fish and Wildlife Commission, Miami, FL; October 28

2014 Hierarchical molecular classification of *Astrangia*-associated *Symbiodinium*. *Astrangia* Workshop, Ocean Genome Legacy, Ipswitch, MA; January 19

CONFERENCE PRESENTATIONS

[*] Collaborator Presenter

[^] Undergraduate Student Presenter (JEP Lab)

[&] Graduate Student Presenter (JEP Lab)

[%] Postdoc Presenter (JEP Lab)

Oral

2024 Predicting acute versus chronic heat stress responses among Florida's staghorn corals. 3rd Reef Futures, Riviera Maya, Mexico; December 9

2024[&] Quantifying the efficacy of coral restoration with microbial DNA and metazoan eDNA. 3rd Reef Futures, Riviera Maya, Mexico; December 9

2024[*] Genomic insights on wild and restored reef population dynamics and the genetic basis of thermal tolerance in *Acropora cervicornis*. 3rd Reef Futures, Riviera Maya, Mexico; December 9

2024[*] Safeguarding Florida's coral reefs: the urgency of assisted gene flow for elkhorn coral conservation. 3rd Reef Futures, Riviera Maya, Mexico; December 9

2024[*] Demographic history and resilience potential of the threatened Caribbean coral, *Acropora cervicornis*. Society for Integrative and Comparative Biology, Seattle, WA; January 6

2022[*] Managing expectations for selective breeding of future corals: the super coral myth. 2nd Reef Futures, Key Largo, FL; September 28

2022 Investigating the genomic basis of key performance traits to quantify the evolutionary potential of coral populations under climate change. 2nd Reef Futures, Key Largo, FL; September 28

2022 How can we develop new tools and best practices to accurately delimit Symbiodiniaceae diversity in reef research? [Workshop] 15th International Coral Reef Symposium, Bremen, Germany; July 5

2022 Genomic evidence for phyletic gradualism as the mode of coral symbiont evolution. 15th International Coral Reef Symposium, Bremen, Germany; July 4

2021 Genomic evidence for phyletic gradualism as the mode of coral symbiont evolution. 14th International Coral Reef Symposium, Virtual; July 21

2021% Comparative genomics of Symbiodiniaceae: molecular mechanisms of diversification. 14th International Coral Reef Symposium, Virtual; July 20

2021* Quantifying performance traits in *Acropora cervicornis* populations across Florida and The Bahamas to optimize reef restoration. 14th International Coral Reef Symposium, Virtual; July 19

2018* Incorporating phenotypic traits in coral restoration. 1st Reef Futures, Key Largo, FL; December 12

2018 Molecular tools for coral reef restoration: beyond biomarker discovery. 1st Reef Futures, Key Largo, FL; December 12

2018* Population genetic considerations for coral restoration. 1st Reef Futures, Key Largo, FL; December 12

2018* Restoration provenance strategies to improve climate resilience. 1st Reef Futures, Key Largo, FL; December 12

2018* How to maximize future adaptive potential of restored coral populations. 1st Reef Futures, Key Largo, FL; December 11

2018* Manipulation of surface glycan biosynthesis decreases colonization success during onset of cnidarian-dinoflagellate symbiosis. Yosemite Symbiosis Workshop, UC Merced—Sierra Nevada Research Institute, Wawona, CA; May 5

2018* Novel glycan biosynthesis manipulation of Symbiodinium impacts onset of cnidarian-dinoflagellate symbiosis. Society for Integrative and Comparative Biology, San Francisco, CA; January 6

2017 Tracking symbiotic dinoflagellate coinfection dynamics in cnidarian hosts using dye tracers. Phycological Society of America Annual Meeting, Monterey, CA; June 8

2016 Fine-scale transcriptional responses to climate change in the endangered Caribbean Staghorn coral *Acropora cervicornis*. 13th International Coral Reef Symposium, Honolulu, HI; June 22

2016* Diversity of *Symbiodinium* spp. in the zoantharian *Zoanthus sansibaricus* across vertical gradients in the Western Pacific. 13th International Coral Reef Symposium, Honolulu, HI; June 21

2016* A systematic revision of *Symbiodinium*: "Clades" are genera. 13th International Coral Reef Symposium, Honolulu, HI; June 20

2016 Diversity of *Symbiodinium* spp. in the zoantharian *Zoanthus sansibaricus* across vertical gradients in the Western Pacific. 23rd Pacific Science Conference, Taipei, Taiwan; June 16

2015 Tracking zoantharian symbiont community shifts under changing light regimes. East China Sea International Workshop, Jeju, South Korea; November 1

2013 Moving toward a systematic revision of the genus *Symbiodinium*, the intracellular symbiont of corals. Evolution Meeting, Snowbird, UT; June 24

2012 Host-symbiont interactions at the sub-clade level influence holobiont thermal resistance. 12th International Coral Reef Symposium, Cairns, Australia; July 27

2012 Hierarchical molecular classification of coral-associated dinoflagellates: an effort toward taxonomic stability in the genus *Symbiodinium*. 41st Benthic Ecology Meeting, Norfolk, VA; March 24

Poster

2024 A novel phylogenomic approach to study coral symbiont evolution. Penn State Undergraduate Exhibition, State College, PA; April 16

2024 Inoculating novel Symbiodiniaceae symbionts in the Large Benthic Foraminifera (*Sorites orbiculus*) following an artificial bleaching experiment. European Coral Reef Symposium, Napoli, Italy; July 2

2023^ Using environmental DNA to quantify the cryptic species *Hippocampus zosterae* within Tampa Bay. OneUSF Undergraduate Research Conference, Tampa, FL; April 6

2023^ Effects of microplastics on symbioses re-establishment in coral model *Aiptasia* post-bleaching event. OneUSF Undergraduate Research Conference, Tampa, FL; April 6

2023^ Effects of microplastics on symbioses re-establishment in coral model *Aiptasia* post-bleaching event. Florida Undergraduate Research Conference, Miami Gardens, FL; February 17

2022% The genome of a giant clam symbiont: whole genome duplication, thermotolerance, and extracellular symbiosis. 4th Jacques-Monod Conference: "From parasites to plankton and back: Comparative biology and ecology of apicomplexans and dinoflagellates," Roscoff, France; September 5

2020* Mass spectrometry reveals fucosylated and sialylated N-glycans as potential determinants of coral-dinoflagellate symbiosis specificity. ASMS Conference on Mass Spectrometry and Allied Topics, Houston, TX; June 3

2018 Mass spectrometry reveals fucosylated and sialylated N-glycans as potential determinants of coral-dinoflagellate symbiosis specificity. 9th International Symbiosis Society Congress, Corvallis, OR; July 11

2018* Subtle differences in symbiont cell surface glycan profiles do not explain species-specific colonization rates in a model cnidarian-algal symbiosis. 26th Volcano Conference in Bioorganic Chemistry, Pack Forest, WA; February 27

2015* Development of microsatellite loci for *Symbiodinium psygmophilum* (*Symbiodinium* ITS-type B2). 44th Annual Benthic Ecology Meeting, Quebec City, Canada; March 5

2014 Transcription of coral-associated dinoflagellates (genus *Symbiodinium*) varies extensively among individuals and species within Clade B. 12th Annual Ecological Genomics Symposium, Kansas City, MO; October 21

2012 The molecular basis of host x symbiont genotype interactions in corals. 10th Annual Ecological Genomics Symposium, Kansas City, MO; October 25

2010 High clonality of host and symbionts characterizes Florida *Acropora palmata* populations. Student Conference on Conservation Science, New York, NY; October 4

2010 High clonality of host and symbionts characterizes Florida *Acropora palmata* populations. Linking Science to Management in the Florida Keys, Duck Key, FL; July 23

2010 Associations are flexible during the early ontogeny of acroporid coral-algal symbioses. 39th Benthic Ecology Meeting, Wilmington, NC; March 10

2010 Effect of elevated temperature, irradiance, and symbiont exposure on the settlement success and early ontogeny of a coral-algal symbiosis: a case study of the brooding coral *Porites astreoides*. Cooperation Conference, Ithaca, NY; February 2

2009 Effect of elevated temperature on the settlement success and early ontogeny of a coral algal symbiosis: a case study in the brooding coral *Porites astreoides*. University of Miami Research and Creativity Forum, Coral Gables, FL; May 22

TEACHING

University of South Florida

Evolutionary Biology	3x Semesters; Graduate Level; Discussion-Based
Organic Evolution	4x Semesters; Undergraduate Level; Lecture-Based
Symbiosis and the Environment	2x Semesters; Under / Graduate Level; Lecture-Based
Advances in Marine Genomics	8x Semesters; Graduate Level; Discussion-Based

Oregon State University

Molecular Host-Microbe Interactions	1x Semester; Graduate Level; Discussion Based
Symbiosis and the Environment	1x Semester; Undergraduate Level; Lecture-Based

Pennsylvania State University

Cell Biology Laboratory	2x Semesters; Undergraduate Level; Teaching Assistant

ADVISING

University of South Florida

Ph.D. Students	3 total (3 current)
M.Sc Students	1 total (1 current)
Additional Graduate Student Committees	7 total (4 current)
Postdoctoral Researchers	1 total (0 current)
Undergraduate Student Volunteers	25 total (10 current)

SERVICE

Departmental Service (USF Integrative Biology)

2022-present	Peer Evaluation and Mentorship Committee (Member / Interim Chair)
2023-2024	Faculty Search Committee (Member)
2021-2022	Faculty Search Committee (Member)
2020-2023	Safety and Visibility Committee (Chair)
2019-2021	Graduate Admissions and Policy Committee (Member)

Institutional Service (University of South Florida)

2022-present	Association of Marine Laboratories of the Caribbean (Institutional Representative)

Professional Service

2024	Closing the Coral Life Cycle Workshop (Participant and Group Leader)
2023-present	International Coral Reef Society Mentorship Program (Mentor)
2023	NSF Review Panelist
2022	NSF In-Person Symbiodiniaceae Diversity Workshop @ ICRS (Co-Chair)
2021	NSF Virtual Symbiodiniaceae Diversity Workshop (Co-Chair)
2020-2022	Editor: *Frontiers in Ecology and Evolution* (Special Topic Editor)
2017-present	NOAA Coral Restoration Consortium: Genetics Working Group (Member)
2016-present	(Inter)national Conference Session Organizer (6x)
2014-present	Ad Hoc Reviewer for Funding Programs (28x)
2011-present	Ad Hoc Reviewer for Scientific Journals (151x)

EDUCATIONAL OUTREACH

University of South Florida

2024 Environment Florida Youth Ocean Summit (Panelist)

2024 United Nations Association of the United States of America at USF Sustainable Development Goals Project Pitch Competition (Judge)

2023 NSF Research Coordinated Network for Evolution in Changing Seas' Virtual Happy Hour on Artificial Breeding and Conservation (Panelist)

2023 Practice What They Teach: The Value of Undergraduate Research and How to Get Involved (Panelist)

2022 Amgen Biotech Experience Tampa Professional Development Institute for Teachers (Speaker)

2021 Graduate Student Research Symposium (Judge; 3x; 2021-2023)

2021 'Canes Conversation on Coral Restoration Research (Panelist)

2020 Darwin Day (Guest Lecturer)

Oregon State University

2018 Corvallis High School Ocean Acidification Day (Panelist and Judge)

2018 Salem Progressive Film Series Screening: "Chasing Coral" (Panelist)

2018 OSU Film Screening: "Chasing Coral" (Organizer and Panelist)

2018 OSU School of Arts and Communication: A Call to Life (Panelist)

2017 OSU Biology Open House (Presenter)

University of the Ryukyus

2016 Okinawa Prefectural Kyuyo High School (Panelist and Judge)

Pennsylvania State University (2012-2014)

2014 Nittany Valley Charter School: 3rd Grade Class on Climate Change (Presenter)

2013 Penn State Graduate Research Exhibition (Judge; 2x; 2013-2014)

2012 Pennsylvania Junior Science and Humanities Symposium (Judge; 2x; 2012-2013)

PUBLIC OUTREACH

Science Communication

2021 Parkinson JE, LaJeunesse TC (2021) Solar symbionts. *Coral Magazine*

2017 Parkinson JE (2017) 'Chasing Coral' as they disappear. *The Warwick Advertiser*

2015 Parkinson JE (2015) The greatest frag swap on earth. *Reefs.com Magazine*

2012 LaJeunesse TC, Parkinson JE, Trench RK (2012) *Symbiodinium* Entry. *Tree of Life*

Science Press

2023 Tilmans D (2023) Weather wonders: coral bleaching. *WFFT-TV News – Fort Wayne*

2023 Lambert J (2023) An unprecedented heat wave imperils Florida's corals: A top scientist explains how to save them. *TheMessenger.com*

2023 Cashmere J (2023) Concern grows for Florida's coral reefs as ocean temperatures rise. *WPTV News – West Palm Beach*

2023 Holden M (2023) USF coral biologists host panel of experts to guide future research. *USF HUB*

2023 Hanes S (2023) Reefs are in trouble. Can scientists nurture more resilient coral? *The Christian Science Monitor*

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Government Reports

2024 Coral Restoration Consortium Genetics Working Group, including **Parkinson JE** (2024) NOAA White Paper: Safeguarding Florida's coral reefs: the urgency of assisted gene flow for elkhorn coral conservation

2022 Davies SW, Correa AMS, **Parkinson JE** (2022) NSF White Paper: Modernizing Symbiodiniaceae diversity research

2014 Hunt J, Sharp W (2014) Developing a comprehensive strategy for coral restoration in Florida. In: State Wildlife Grant Award T-32-R 1169: Final Report 2014 Dec 30. Tallahassee, Florida Fish and Wildlife Conservation Commission (Workshop Attendee)

Additional Pedagogical Training

2022 Inclusive and Equitable Pedagogy Course
2021 NCFDD Early Career Faculty Workshop Series

SCUBA Certifications (>300 science dives since 2005)

AAUS Scientific Research Diver, IANTD Nitrox, SSI Advanced, PADI Open Water