(Michael San Jose)

**College of Tropical Agriculture and Human Resources**

(Plant and Environmental Protection Sciences)

FTE Distribution: 0% I; 100% R; 0% E

**Education**

|  |  |  |
| --- | --- | --- |
| **Degree** | **University** | **Major** |
| Bachelors | University of Hawaii at Manoa | Biology |
| Masters |  |  |
| PhD | University of Hawaii at Manoa | Entomology |

**Lifetime and Fellow Achievement Awards (peer nominated and endorsed national and International-important for those without accreditation that is peer nominated and endorsed, recognized)**

**Professional Appointments**

|  |  |  |
| --- | --- | --- |
| **Title** | **Employer** | **Dates Employed** |
| Junior Researcher | UH MANOA PEPS | Jan 2019- present |

**Courses Taught**

Course Number and Title (credits)

**Publications (reverse chronological order)**

Books

Book Chapters

Conference Proceedings

Refereed Journal Publications

**Rubinoff, D., San Jose, M., Hundsdoerfer, A.K. 2021.** Cryptic diversity in a vagile Hawaiian moth group suggests complex factors drive diversification. Molecular Phylogenetics and Evolution, in press. https://doi.org/10.1016/j.ympev.2020.107002.

**Doorenweerd, C., San Jose, M., Barr, N., Leblanc, L., Rubinoff, D. 2020.**  Highly variable COI haplotype diversity between three species of invasive pest fruit fly reflects remarkably incongruent demographic histories. Sci Rep 10, 6887. https://doi.org/10.1038/s41598-020-63973-x

**Leblanc, L., Hossain, M. A., Doorenweerd, C., Ahmed Khan, S., Momen, M., San Jose, M., & Rubinoff, D. 2019.** Six years of fruit fly surveys in Bangladesh: a new species, 33 new country records and discovery of the highly invasive Bactrocera carambolae (Diptera, Tephritidae). ZooKeys, 876, 87–109. https://doi.org/10.3897/zookeys.876.38096

**Doorenweerd, C., Leblanc, L., Hsu, Y.-F., Huang, C.-L., Lin, Y.-C., San Jose, M., and Rubinoff, D. 2019.** Taiwan's Dacini Fruit Flies: Rare Endemics and Abundant Pests, along Altitudinal Gradients. *Pacific Science, 73*(1). doi:10.2984/73.1.3

**Leblanc, L., C. Doorenweerd, M. San Jose, H. T. Pham, and D. Rubinoff. 2018.** Descriptions of four new species of *Bactrocera* and new country records highlight the high biodiversity of fruit flies in Vietnam (Diptera, Tephritidae, Dacinae). ZooKeys 797: 87–115.

**Leblanc, L., C. Doorenweerd, M. San Jose, U. G. A. I. Sirisena, K. S. Hemachandra, and D. Rubinoff. 2018.** Description of a new species of Dacus from Sri Lanka, and new country distribution records (Diptera, Tephritidae, Dacinae). ZooKeys 795: 105-114.

**Reil, J. B., C. Doorenweerd, M. San Jose, S. B. Sim, S. M. Geib, and D. Rubinoff. 2018.** Transpacific coalescent pathways of coconut rhinoceros beetle biotypes: Resistance to biological control catalyses resurgence of an old pest. Mol Ecol.

**San Jose, M., C. Doorenweerd, L. Leblanc, N. Barr, S. M. Geib, and D. Rubinoff. 2018.** Tracking the origins of fly invasions; Using mitochondrial haplotype diversity to identify potential source populations in two genetically intertwined fruit fly species (*Bactrocera carambolae* and *B. dorsalis* Diptera: Tephritidae) Journal of Economic Entomology.

**Dupuis, J. R., F. T. Bremer, A. Kauwe, M. San Jose, L. Leblanc, D. Rubinoff, and S. M. Geib. 2018.** HiMAP: Robust phylogenomics from highly multiplexed amplicon sequencing. Mol Ecol Resour. 18(5):1000-1019

**San Jose, M., C. Doorenweerd, L. Leblanc, S. M. Geib, N. Barr, and D. Rubinoff. 2018.** Incongruence between molecules and morphology: a seven-gene phylogeny of Dacini fruit flies paves the way for reclassification (Diptera: Tephritidae). Molecular Phylogenetics and Evolution 121: 139-149.

**Doorenweerd, C., L. Leblanc, A. L. Norrbom, M. San Jose, and D. Rubinoff. 2018.** A global checklist of the 932 fruit fly species in the tribe Dacini (Diptera, Tephritidae). ZooKeys 730: 17.

**Dupuis, J. R., S. B. Sim, M. San Jose, L. Leblanc, M. A. Hoassain, D. Rubinoff, and S. M. Geib. 2017.** Population genomics and comparisons of selective signatures in two invasions of melon fly, *Bactrocera* cucurbitae (Diptera: Tephritidae). Biological Invasions.

**Rubinoff, D., M. San Jose, and R. S. Peigler. 2017.** Multi‐gene phylogeny of the Hemileuca maia complex (Saturniidae) across North America suggests complex phylogeography and rapid ecological diversification. Systematic Entomology.

**Rubinoff, D., M. San Jose, and J. A. Powell. 2017.** Sex-biased secondary contact obscures ancient speciation onto relictual host trees in central California moths (Syndemis: Tortricidae). Molecular phylogenetics and evolution 109: 388-403.

**Leblanc, L., M. San Jose, M. G. Wright, and D. Rubinoff. 2016.** Declines in biodiversity and the abundance of pest species across land use gradients in Southeast Asia. Landscape ecology 31: 505-516.

**Reil, J. B., M. San Jose, and D. Rubinoff. 2016.** Low Variation in Nuclear and Mitochondrial DNA Inhibits Resolution of Invasion Pathways across the Pacific for the Coconut Rhinoceros Beetle (Scarabeidae: Oryctes rhinoceros).

**Rubinoff, D., M. San Jose, P. Johnson, R. Wells, K. Osborne, and J. J. Le Roux. 2015.** Ghosts of glaciers and the disjunct distribution of a threatened California moth (Euproserpinus euterpe). Biological conservation 184: 278-289.

**Schutze, M. K., N. Aketarawong, W. Amornsak, K. F. Armstrong, A. A. Augustinos, N. Barr, W. Bo, K. Bourtzis, L. M. Boykin, C. CÁCeres, S. L. Cameron, T. A. Chapman, S. Chinvinijkul, A. ChomiČ, M. De Meyer, E. Drosopoulou, A. Englezou, S. Ekesi, A. Gariou-Papalexiou, S. M. Geib, D. Hailstones, M. Hasanuzzaman, D. Haymer, A. K. W. Hee, J. Hendrichs, A. Jessup, Q. Ji, F. M. Khamis, M. N. Krosch, L. U. C. Leblanc, K. Mahmood, A. R. Malacrida, P. Mavragani-Tsipidou, M. Mwatawala, R. Nishida, H. Ono, J. Reyes, D. Rubinoff, M. San Jose, T. E. Shelly, S. Srikachar, K. H. Tan, S. Thanaphum, I. Haq, S. Vijaysegaran, S. L. Wee, F. Yesmin, A. Zacharopoulou, and A. R. Clarke. 2015.** Synonymization of key pest species within the *Bactrocera* *dorsalis* species complex (Diptera: Tephritidae): taxonomic changes based on a review of 20 years of integrative morphological, molecular, cytogenetic, behavioural and chemoecological data. Systematic Entomology 40: 456-471.

**Leblanc, L., M. San Jose, and D. Rubinoff. 2015.** Description of a new species and new country distribution records of *Bactrocera* (Diptera: Tephritidae: Dacinae) from Cambodia. Zootaxa 4012: 593-600.

**Leblanc, L., M. San Jose, N. Barr, and D. Rubinoff. 2015.** A phylogenetic assessment of the polyphyletic nature and intraspecific color polymorphism in the *Bactrocera* *dorsalis* complex (Diptera, Tephritidae). ZooKeys: 339.

**Leblanc, L., M. San Jose, B. P. Bhandari, C. A. Tauber, and D. Rubinoff. 2015.** Attraction of Lacewings (Neuroptera: Chrysopidae) to Methyl Eugenol in Asia. Proceedings of the Hawaiian Entomological Society: 67-70.

**Leblanc, L., H. Fay, F. Sengebau, M. San Jose, D. Rubinoff, and R. Pereira. 2015.** A Survey of Fruit Flies (Diptera: Tephritidae: Dacinae) and their Opiine Parasitoids (Hymenoptera: Braconidae) in Palau. Proceedings of the Hawaiian Entomological Society 47: 55-66.

**Leblanc, L., M. A. Hossain, S. A. Khan, M. San Jose, and D. Rubinoff. 2014.** Additions to the fruit fly fauna (Diptera: Tephritidae: Dacinae) of Bangladesh, with a key to the species. Proceedings of the Hawaiian Entomological Society: 31-40.

**Barr, N. B., L. A. Ledezma, L. Leblanc, M. San Jose, D. Rubinoff, S. M. Geib, B. Fujita, D. W. Bartels, D. Garza, and P. Kerr. 2014.** Genetic diversity of *Bactrocera* *dorsalis* (Diptera: Tephritidae) on the Hawaiian Islands: implications for an introduction pathway into California. Journal of economic entomology 107: 1946-1958.

**Leblanc, L., M. A. Hossain, S. A. Khan, M. San Jose, and D. Rubinoff. 2013.** A preliminary survey of the fruit flies (Diptera: Tephritidae: Dacinae) of Bangladesh. Proceedings of the Hawaiian Entomological Society 45: 51-58.

**San Jose, M., L. Leblanc, S. M. Geib, and D. Rubinoff. 2013.** An evaluation of the species status of *Bactrocera invadens* and the systematics of the *Bactrocera* *dorsalis* (Diptera: Tephritidae) complex. Annals of the entomological Society of America 106: 684-694.

**Rubinoff, D., M. San Jose, and A. Y. Kawahara. 2012.** Phylogenetics and Species Status of Hawai ‘i's Endangered Blackburn's Sphinx Moth, Manduca blackburni (Lepidoptera: Sphingidae). Pacific Science 66: 31-41.

**Rubinoff, D., B. S. Holland, M. San Jose, and J. A. Powell. 2011.** Geographic proximity not a prerequisite for invasion: Hawaii not the source of California invasion by light brown apple moth (Epiphyas postvittana). PLoS One 6: e16361.

**Rubinoff, D., and M. San Jose. 2010.** Life history and host range of Hawaii’s endangered Blackburn’s sphinx moth (Manduca blackburni Butler).

Extension Publications

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)

Leadership Roles (Committees, Boards, Advisory, etc.)

**Graduate Students**

|  |  |  |
| --- | --- | --- |
| Category | Current Number of Students | Number Graduated (Career) |
| *Chair* of Master’s Committees |  |  |
| *Chair* of PhD Committees |  |  |
| Member of Master’s Committees |  |  |
| Member of PhD Committees |  |  |

**Grant Support**

Title of Grant:

Source of Grant:

Total Dollar Value (Your share of the grant value):

Dates of Grant:

Role (PI, CoPI):

*(repeat as needed)*

**Presentations at Conferences**

**\***San Jose, M. 2021. Using genomics to understand insect evolution and invasive species. Presented at the e3- STArt, Virtual International Conference, Central Luzon State University, Nueva Ecija, Philippines. 25 October 2021.

\*San Jose, M. 2020. Using collections to study phylogenetics and biogeography in Hawaii. Presented at the Bishop Museum Pau Hana. Honolulu HI. 8 May 2020

\*San Jose, M. 2019. Hiding in plain sight: genomics reveals potential cryptic homoploid hybrid speciation in a major global agricultural pest. Presented at the Evolution conference, Providence RI. 23 June 2019.

\*San Jose, M. 2018. Molecular Systematics and Population Genomics of the Tribe Dacini (Diptera: Tephritidae). Presented at the USDA APHIS McAllen TX. 23 October 2018.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2017. Assessing global population structure in the invasive oriental fruit fly, Bactrocera dorsalis (Diptera: Tephritidae). Presented at the Pacific Entomology conference. 7 December 2017.

\*San Jose, M., Leblanc, L., Sim, S., Gieb, S., Rubinoff, D. 2017. Global population genomics of Bactrocera dorsalis s.lat. Species boundaries and introgression in these global invaders. Presented at the Entomological Society of America. Denver Colorado. 13 November 2017.

\*San Jose, M., Leblanc, L., Sim, S., Gieb, S., Rubinoff, D. 2016. Using next generation sequencing to uncover population structure and species boundaries in Bactrocera dorsalis and its sister species Bactrocera carambolae. Presented at the International Congress of Entomology. Orlando Florida. 28 September 2016.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2016. Systematics, biogeography and evolution of kairomone response in the tribe Dacini (Diptera: Tephritidae). Presented at the Evolution meeting. Austin Texas. 20 June 2016.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2016. Population Genetics of the Genus *Bactrocera* (Diptera: Tephritidae). Presented at the Second Tephritid Workers Workshop. Sacramento California. 10 February 2016.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2015. The species status of *Bactrocera dorsalis* and its sister species: Current research on a complex question. Presented at Pacific Entomology Conference. Honolulu, Hawaii. 15 February 2015.

\*San Jose, M. 2014. Systematics and Population Genetics of the Genus *Bactrocera* (Diptera: Tephritidae). University of Hawaii Ph.D. Proposal Seminar. Honolulu, Hawaii. 23 September 2014.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2014. Systematics and Population Genetics of the *Bactrocera dorsalis* complex (Diptera: Tephritidae). Presented at ARCS Scholar Symposium. Honolulu, Hawaii. 19 April 2014.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2014. Mitochondrial DNA-based Population Genetics of *Bactrocera dorsalis* (Diptera: Tephritidae). Presented at CTAHR Symposium. Honolulu, Hawaii. 12 April 2014.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2014. Population genetics of the *Bactrocera dorsalis* complex(Diptera: Tephritidae) based on mitochondrial DNA. Presented at Annual Entomological Society of America Meeting. Tucson, Arizona. 7 April 2014.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2013. Phylogenetics of the genus *Bactrocera* and evolution of male lure response. Presented at Evolunch. Honolulu, Hawaii. 6 December 2013.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2013. Evolution of male lure response in the genus *Bactrocera*. Presented at Annual Entomological Society of America Meeting. Austin, Texas. 10 November 2013.

\*San Jose, M., Larulson, A. 2013. Systematics and evolution of the genus *Bactrocera*. Presented at Bodega Bay Phylogenetics Workshop. Bodega Bay, California. 8 March 2013.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2012. Is it a complex or a complex mess? Systematics of the genus *Bactrocera* and the *Bactrocera dorsalis* complex. Presented at Pacific Entomology Conference. Honolulu, Hawaii. 23 February 2012.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2012. Phylogenetics of *Bactrocera* (Diptera: Tephritidae). Presented at Tephritid Workers Workshop, McAllen Texas. 10 January 2012.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2011. Systematics of the Genus *Bactrocera* (Diptera: Tephritidae) Based on Mitochondrial and Nuclear Genes. Presented at the Entomological Society of America, Annual Meeting. Reno, Nevada. November 2011.

\*San Jose, M., Leblanc, L., Rubinoff, D. 2011. Systematics of the Genus *Bactrocera* (Diptera: Tephritidae) Based on Mitochondrial and Nuclear Genes. Presented at the Entomological Society of America, Pacific Branch Meeting. Waikaloa, Hawaii. 28 March 2011.

**San Jose, M.**, Rubinoff, D. 2009. The genetic diversity and distribution of Light Brown Apple Moth (*Epiphyas postvittana)* in Hawaii. Presented at Pacific Entomology Conference. Honolulu, Hawaii. 19 February 2009.

Title:

Authors (put an asterisk on the presenter):

Name of Conference:

Location:

Date of Presentation:

*(repeat as needed)*