

Noah H. Rose

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Education

Postdoctoral	Princeton University, Department of Ecology and Evolutionary Biology	2017–2021
PhD	Stanford University, Department of Biology	2012–2016
BSc	Brown University, Department of Computational Biology <i>awarded with Honors</i>	2008–2012

Research Experience

Helen Hay Whitney Postdoctoral Fellow, McBride Lab, Princeton University	2018–2021
Postdoctoral Researcher, McBride Lab, Princeton University	2017–2021
PhD Student, Palumbi Lab, Stanford University	2012–2016
Rotation Student, Grossman Lab, Carnegie Institution for Science	2013
Research Assistant, Morse Lab, Brown University	2010–2012
Research Assistant, Weinreich Lab, Brown University	2011–2012

Teaching Experience

Part Time Lecturer, Human Genomics, Princeton University	Spring 2019
Co-Instructor, RSMAS CompBio-athon, University of Miami	Spring 2018
Assistant Instructor, University of California Conservation and Gene Expression Workshop, Asilomar	Fall 2016
Teaching Assistant, BioCore, Stanford University	Spring 2014
Teaching Assistant, Genetic Basis of Human Disease, Stanford University	Spring 2013
Teaching Assistant, Genetics, Brown University	Fall 2012

Fellowships, Awards & Grants

<i>Pending funding decision: NIH NIAID K22, Impact Score 20, currently revising</i>	2021
Helen Hay Whitney Postdoctoral Fellowship	2018–2021
Hopkins Marine Station Outstanding Achievement Award	2016
Stanford CEHG Seed Award	2016
Myers Trust Research Award	2015
NSF Graduate Research Fellowship	2012
James F. Kidwell Prize in Genetics or Population Biology, Brown University	2012
Undergraduate Training and Research Award, Brown University	2011

Peer-Reviewed Publications

F Aubrey, S Dabo, C Manet, I Filipović, **NH Rose**, 32 additional authors, L Lambrechts.
Increased Zika virus susceptibility of globally invasive *Aedes aegypti* populations.
Science 370 (6519), 991-996.

NH Rose, M Sylla, A Badolo, J Lutomiah, D Ayala, OB Aribodor, N Ibe, J Akorli, S Otoo, JP Mutebi, AL Kriete, EG Ewing, R Sang, A Gloria-Soria, JR Powell, RE Baker, BJ White, JE Crawford, CS McBride (2020). Climate and urbanization drive mosquito preference for humans. *Current Biology* 30 (18), 3570-3579.

Selected media coverage:

[*The Atlantic*](#): “The Worst Animal in the World”

[*New York Times*](#): “Why Some Mosquitoes Prefer Humans”

[*NPR*](#): “Why Some Mosquitoes Are Mingling More With Humans”

[*BBC World Service*](#): *Science In Action*, 23 July, 2020.

The Aedes Genome Working Group (including **NH Rose**) (2018). Improved *Aedes aegypti* mosquito reference genome assembly enables biological discovery and vector control. *Nature* 8 (1), 243-252.

NH Rose, RA Bay, MK Morikawa, SR Palumbi. Polygenic evolution drives species divergence and climate adaptation in corals. *Evolution* 72 (1), 82-94. **Cover article**

L Thomas, **NH Rose**, RA Bay, EH Lopez, MK Morikawa, L Ruiz-Jones, SR Palumbi (2018). Mechanisms of thermal tolerance in reef-building corals across a fine-grained environmental mosaic: lessons from Ofu, American Samoa. *Frontiers in Marine Biology* 4, 434.

RA Bay, **NH Rose**, CA Logan, SR Palumbi (2017). Genomic models predict successful coral adaptation if future ocean warming rates are reduced. *Science Advances* 3 (11), e1701413.

N Traylor-Knowles, **NH Rose**, SR Palumbi (2017). The cell specificity of gene expression in the response to heat stress in corals. *Journal of Experimental Biology* 220 (10), 1837-1845.

N Traylor-Knowles, **NH Rose**, EA Sheets, SR Palumbi (2017). Early transcriptional responses during heat stress in the coral *Acropora hyacinthus*. *The Biological Bulletin* 232 (2), 91-100.

RA Bay*, **NH Rose***, RDH Barrett, RB Brem, CK Ghalambor, L Bernatchez, PL Ralph, JR Lasky, SR Palumbi (2017). Predicting responses to contemporary environmental change using evolutionary response architectures. *The American Naturalist* 189 (5), 463-473. *These authors contributed equally.

NH Rose, FO Seneca, SR Palumbi (2015). Gene networks in the wild: identifying transcriptional modules that mediate coral resistance to experimental heat stress. *Genome Biology and Evolution* 8 (1), 243-252.

NH Rose, R Halitschke, DH Morse (2015). Tri-trophic effects of seasonally variable induced plant defenses vary across the development of a shelter-building moth larva and its parasitoid. *PLoS ONE* 10 (3), e0120769.

Publications in Progress

- S Xia, HKM Dweck, J Lutomiah, R Sang, CS McBride, **NH Rose**, D Ayala, JR Powell. Oviposition of the mosquito *Aedes aegypti* in forest and domestic habitats in Africa. *In review. bioRxiv 2020.07.08.192187*
- NH Rose**, RA Bay, MK Morikawa, L Thomas, EA Sheets, SR Palumbi. Genomic analysis of distinct bleaching tolerances among cryptic coral species. *In review.*
- L Thomas, ZL Fuller, JN Underwood, **NH Rose**, I Cooke, ZT Richards, L Bay, SR Palumbi, JP Gilmour. Subtle allele frequency shifts drive climate adaptation in reef-building corals of Northwest Australia. <http://dx.doi.org/10.2139/ssrn.3753800>.
- The 1200 *Aedes aegypti* genomes consortium (including **NH Rose**). 1200 *Aedes aegypti* genomes. *In preparation.*
- The 1000 *Aedes albopictus* genomes consortium (including **NH Rose**). 1000 *Aedes albopictus* genomes. *In preparation.*
- The PipPop consortium (including **NH Rose**). The *Culex pipiens* population genomics project. *In preparation.*
- NH Rose** and D Ayala. Working with field-derived mosquitoes in the lab. CSHL Mosquito Manual chapter. *Invited, in preparation.*

Contributed Presentations

Biology of Genomes (poster)	2021
Genomic Forecasting Symposium	2020
<i>unofficial online SMBE session replacement</i>	
Evolution	2019
EMBO: Population Biology of Mosquitoes (poster)	2019
American Society for Tropical Medicine and Hygiene (poster)	2019
Society for Molecular Biology and Evolution	2017
American Genetics Association, President's Symposium	2016
<i>Student abstract award</i>	
International Coral Reef Symposium	2016
American Society of Naturalists	2016
Hopkins Marine Station Graduate Research Symposium	2016
American Society of Naturalists	2014
Bay Area Population Genetics Group Meeting	2013

Invited Talks

MIT, Department of Civil and Environmental Engineering Seminar	2021
University of Virginia, Department of Ecology and Evolutionary Biology Seminar	2021
Princeton University, Department of Ecology and Evolutionary Biology Seminar	2021
UC Berkeley, Department of Public Health	2021
Eastern Michigan University Biology Departmental Seminar	2020
Princeton Neuroscience Institute Seminar	2020

Guest Lecturer, Evolution (EEB309), Princeton University	2017
Guest Lecturer, Marine Experimental Physiology California State University Monterey Bay	2016

Outreach and Service

EEB Mentors program for underrepresented graduate student recruitment (planned)	2021
Invited Panelist, Inclusive Practices in International Research Department of Ecology and Evolutionary Biology, Princeton University	2021
Nutrition Coordinator, Hopkins Marine Station Graduate Student Council	2014–2016
Symposium Organizer, American Society of Naturalists, Pacific Grove, CA	2016
Treasurer, Hopkins Marine Station Graduate Student Council	2016
Guest Speaker, Raising Interest in Science and Engineering (RISE) Summer Internship Program, Stanford University	2014
Guest Speaker, Olosega Elementary School, American Samoa	2013–2014
Guest Speaker, Manihiki Elementary School, Cook Islands	2014
Volunteer, Biobus Mobile Educational Lab	2011–2012