Nicole Nova, PhD Candidate

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Interests: Ecology, evolution, mathematical biology, infectious disease dynamics, population genetics, comparative genomics, biodiversity & wildlife conservation.

Education

PhD	Biology, Stanford University	2016–present
BSc, **MSc**	Dental Surgery, Karolinska Institutet	2007–2012
	Minor in Electrical Engineering, Royal Institute of Technology	GPA 3.9/4.0

Positions

2016–pres. PhD Candidate, Department of Biology, Stanford University
Advisors: Erin Mordecai and Dmitri Petrov
2016–2017 Director, Research Science Institute, Center for Excellence in Education and Massachusetts Institute of Technology (MIT)
2015–2016 Research Associate, Department of Biology, Duke University (PI: Katia Koelle)
2014–2015 Research Trainee, Department of Biostatistics and Computational Biology, Dana-Farber/Harvard Cancer Center (PI: Franziska Michor)
2011–2013 Mentorship Director, Research Academy for Young Scientists
2010 Surgical Assistant, Department of Cranio-, Maxillofacial and Oral Surgery, Medical University of Vienna
2010–2012 Research Assistant, Department of Physiology and Pharmacology, Karolinska Institutet (PI: Camilla Svensson)
2007 Research Intern, Department of Brain and Cognitive Sciences, Harvard Medical School, Brigham and Women's Hospital (PI: Jeremy Wolfe)
2006 Research Intern, Department of Biosciences and Nutrition, Karolinska Institutet

Awards

2017 Excellence in Teaching Award, Department of Biology, Stanford University
2007 Best Student of the Year Award (Valedictorian), Internationella Engelska Gymnasiet
2007 First prize, National Science Fair, Swedish Federation of Young Scientists

Funding

2018 Environmental Venture Project Grant, Stanford Woods Institute for the Environment ($50,000)
2018 The Bing Fellowship in Honor of Paul Ehrlich
2017 Stanford Biology EcoEvo Conference Travel Grant
2013 Google Women in Tech Conference and Travel Grant

2011 European Union Erasmus Mundus Scholarship
2010 Karolinska Institutet Summer Research Scholarship in Medical Sciences
2008 Swedish Federation of Young Scientists Fellowship
to attend National Youth Science Forum at Australian National University
2007 Knut and Alice Wallenberg Fellowship
to attend Research Science Institute at Massachusetts Institute of Technology
2006 Karolinska Institutet Summer Research Scholarship in Biomedical Sciences

Publications

Peer Review

5. Hopkins SR, Sokolow SH, De Leo GA, Buck JC, Jones I, Kwong L, LeBoa C, Lund A, MacDonald A, **Nova N**, Olson SH, Peel AJ, Wood CL, Lafferty KD. Identifying win–wins for human health and conservation. Submitted.

4. Leempoel K, Meyer J, Hebert T, **Nova N**, Hadly EA. Return of an apex predator to a suburban preserve triggers a rapid trophic cascade. *Proceedings of the National Academy of Sciences* (in revision). `bioRxiv preprint`

3. Smith JR, Hendershot JN, **Nova N**, Daily GC. The biogeography of ecoregions: Descriptive power across regions and taxa. *Journal of Biogeography* (in revision).

2. Sokolow SH, **Nova N**, Pepin K, Peel AJ, Manlove K, Cross P, Becker D, Plowright R, Pulliam J, McCallum H, De Leo GA. 2019. Ecological levers to prevent and manage zoonotic pathogen spillover. *Philosophical Transactions of the Royal Society B.* 374(1782):20180342. `doi:10.1098/rstb.2018.0342`

1. Childs ML, **Nova N**, Colvin J, Mordecai EA. 2019. Mosquito and primate ecology predict human risk of yellow fever virus spillover in Brazil. *Philosophical Transactions of the Royal Society B.* 374(1782):20180335. `doi:10.1098/rstb.2018.0335`

Abstract

Van Wert M, **Nova N**, Horowitz T, Wolfe J. 2008. What does performance on one visual search task tell you about performance on another? *Journal of Vision.* 8(6):312. `doi:10.1167/8.6.312`

Book Chapter

Shocket MS, Anderson CB, Caldwell JM, Childs ML, MacDonald AJ, Howard ME, **Nova N**, Han S, Harris M, Mordecai EA. Environmental drivers of vector-borne diseases. *Population Biology of Vector-borne Diseases* (in review).

Thesis

Nova N, Alstergren P, Svensson C. 2012. Chronic inflammation and pain: Assessment of c-Fos and ATF-3 as markers of spinal neuronal activity in a pain model of rheumatoid arthritis. *MSc Thesis, Karolinska Institutet.*

Invited Talks

2019 *Predictors of pathogen sharing across taxa reveal ecological levers to prevent pathogen spillover from wildlife to humans*,
Ecological Society of America (ESA) Annual Meeting, Louisville, KY

2015 *Mathematical Modeling in the Biosciences*,
30th Jubilee Symposium of Research Program in Biomedicine,
Karolinska Institutet, Stockholm, Sweden

2015 *Mathematical Modeling of Cancer and Infectious Diseases*,
Research Experiences for Undergraduates in Mathematical Biology (guest speaker),
National Science Foundation, University of North Carolina at Greensboro, NC

Posters

2018 Conservation Asia, Society for Conservation Biology Asia,
American University of Central Asia, Bishkek, Kyrgyz Republic
2018 Ecology and Evolution of Infectious Diseases, University of Glasgow, Glasgow, UK
2018 Stanford Global Health Research Convening, Stanford University, Stanford, CA
2017 Ecology and Evolution of Infectious Diseases, University of California,
Santa Barbara, CA
2015 Triangle Center for Evolutionary Medicine Symposium,
The Solution Center in Research Triangle Park, Durham, NC
2010 Medical Sciences Symposium, Karolinska Institutet, Stockholm, Sweden
2006 Biomedical Sciences Symposium, Karolinska Institutet, Stockholm, Sweden

Teaching

2017 Teaching Assistant, Stanford University
Fundamentals of Molecular Evolution (BIO 113/244)
2017 Teaching Assistant, Stanford University
Introduction to Research in Ecology and Evolutionary Biology (BIO 47)

Services

2019 Co-Organizer, Organized Oral Session, *Ecological Levers to Improve Human Health*,
Ecological Society of America (ESA) Annual Meeting, Louisville, KY
2016–2017 Chair, Biology Department Seminar Series Speaker Selection Student Committee,
Stanford University, Stanford, CA