Nicole Nova

Ph.D. Student in Ecology & Evolution Department of Biology, Stanford University

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Interests: Biodiversity and conservation of wildlife, ecology and evolution of infectious diseases, climate change and infectious disease dynamics, population genetics, comparative genomics, eco-evolutionary dynamics, rapid adaptation, mathematical modeling.

Education

2016 - present	Ph.D. (Student)	Biology (Ecology & Evolution), Stanford University Advisors: Erin Mordecai & Dmitri Petrov
2007 - 2012	D.D.S., M.Sc., B.Sc.	Dental Surgery, Karolinska Institutet

Academic Positions & Research Experience

2016 - present 2016 - present	Graduate Student, Mordecai Lab & Petrov Lab, Department of Biology, Stanford University Chair, Department Seminar Series Speaker Selection Committee,	
2010 - present	Department of Biology, Stanford University	
2016 - 2017	Director, Research Science Institute, Massachusetts Institute of Technology (MIT)	
	and the Center for Excellence in Education (CEE)	
2015 - 2016	Research Associate, Koelle Research Group, Department of Biology, Duke University	
2014 - 2015	Research Trainee, Michor Lab, Department of Biostatistics and Computational Biology,	
	Dana-Farber/Harvard Cancer Center	
2012 - 2013	Enrolled Student, Electrical Engineering, Royal Institute of Technology (GPA 3.93/4.00)	
2011 - 2013	Mentorship Director, Research Academy for Young Scientists	
Spring 2011	Exchange Student, St. Bartholomew's and the Royal London School of Medicine and Dentistry,	
	Queen Mary University of London	
Summer 2010	Surgical Intern, Department of Cranio-, Maxillofacial and Oral Surgery,	
	Medical University of Vienna	
Summer 2010	Research Assistant, Department of Physiology and Pharmacology, Karolinska Institutet	
Summer 2007	Research Intern, Department of Brain and Cognitive Sciences, Harvard Medical School	
	and Brigham and Women's Hospital	
Summer 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	1 st prize, Swedish National Science Fair

Grants & Scholarships

2017	EcoEvo Conference Travel Grant, Department of Biology, Stanford University (\$600)
2013	Google Women in Tech Conference and Travel Grant (€1,000)
2011	European Union (EU) Erasmus Mundus Scholarship for studies abroad (€1,000)
2010	Summer Research Scholarship in Medical Sciences, Karolinska Institutet (9,000 SEK)
2008	Swedish Federation of Young Scientists Scholarship to attend National Youth Science Forum (NYSF),
	a science camp at the Australian National University (sponsored by the Australian Rotary Club)
2007	Knut and Alice Wallenbergs Scholarship to attend Research Science Institute (RSI),
	a summer research program for high school students at Massachusetts Institute of Technology (MIT)
	(co-sponsored by MIT and CEE - all expenses paid)
2006	Summer Research Scholarship in Biomedical Sciences, Karolinska Institutet (5,000 SEK)

Peer-Reviewed Publications

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

Papers in Preparation

Nova N, Koelle K. Virological and immunological factors impacting the development of antibody breadth during HIV infection. [Manuscript in preparation]

Other Publications

Theses

Nova N, Alstergren P, Svensson C. Chronic inflammation and pain – assessment of c-Fos and ATF-3 as markers of spinal neuronal activity in a pain model of rheumatoid arthritis. M.Sc. Thesis, Karolinska Institutet, June 2012. Access: edu.ofa.ki.se/examensarbete/detail.asp?Id=343

Invited Talks

- 2015 Mathematical Modeling in the Biosciences, 30th Jubilee Symposium of Research Program in Biomedicine, Stockholm, Sweden.
- 2015 Mathematical Modeling of Cancer and Infectious Diseases, guest speaker at the NSF REU program in Mathematical Biology, University of North Carolina at Greensboro (UNCG), Greensboro, NC.

Poster Presentations

Nova N, Shocket M, MacDonald A, Childs M, Rypdal M, Sugihara G, Mordecai E. Environmental factors driving dengue incidence in Central and South America. Ecology & Evolution of Infectious Diseases (EEID) Conference. June 2017, University of California, Santa Barbara, CA.

Nova N, Koelle K. Modeling the development of neutralizing antibody breadth in chronic-stage HIV infection. Triangle Center for Evolutionary Medicine Symposium. November 2015, The Solution Center in Research Triangle Park, Durham, NC.

Mideus G, Nova N, Härenstam-Nielsen L, Enqvist A, Tomaszuk M, Rojas C. Autonomous Robot Accomplishing Standstill Balance and Forward Motion Using Segway Technology. Annual Electrical Engineering Symposium. May 2013, Royal Institute of Technology, Stockholm, Sweden.

Nova N, Bas D, Svensson K. Assessment of c-Fos as a marker of spinal neuronal activity in a pain model of rheumatoid arthritis. Medical Sciences Symposium, August 2010, Karolinska Institutet, Stockholm, Sweden.

Nova N, Robertson K. Activation of Liver X Receptor affects the function and differentiation of osteoclasts. Biomedical Sciences Symposium, August 2006, Karolinska Institutet, Stockholm, Sweden.

Teaching

- Winter 2017 Teaching Assistant, Fundamentals of Molecular Evolution (BIO 113, BIO 244), Prof. Dmitri Petrov, Stanford University.
- Spring 2017 Teaching Assistant, Introduction to Research in Ecology and Evolutionary Biology (BIO 47), Dr. Jessica Coyle, Prof. Tadashi Fukami, Dr. Daria Hekmat-Scafe, Dr. Shyamala Malladi, Stanford University.

Attended Conferences & Workshops

- June 2017 Ecology & Evolution of Infectious Diseases (EEID) Conference, University of California, Santa Barbara, CA.
- Dec. 2015 Epidemics Fifth International Conference on Infectious Disease Dynamics, Clearwater, FL.
- May 2015 Ecology & Evolution of Infectious Diseases (EEID) Conference, University of Georgia, Athens, GA.
- April 2015 Evolutionary Game Theory Workshop, Mathematical Biosciences Institute, Ohio State University, Columbus, OH.
- Sep. 2013 EuroBSDcon 2013 Conference (attended as a Google Women in Tech Scholar), St. Julian's, Malta.

Computer Skills

Advanced Python, HTML/CSS/JS, LATEX Intermediate R, Matlab, C, C++, Mathematica

Basic Java, Django, Node.JS