Nicole Nova

Curriculum Vitae

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

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Interests: Ecology and evolution of infectious diseases in wildlife, population biology, mathematical modeling, eco-evolutionary dynamics, population genetics, evolutionary game theory, biodiversity, conservation and public health.

Education

2016 - present	Ph.D. (Student)	Biology, Stanford University
2007 - 2012	D.D.S., M.Sc., B.Sc.	Dental Surgery, Karolinska Institutet

Academic Positions & Research Experience

2016 - present	Graduate Student, Mordecai Lab, Department of Biology, Stanford University
2016 - present	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

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)
2007	Best Student of the Year Award, Internationella Engelska Gymnasiet (High School)
2007	1 st prize, Swedish National Science Fair
2006	Summer Research Scholarship in Biomedical Sciences, Karolinska Institutet (5,000 SEK)

Publications

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

Nova N, Ashcroft P, Iwasa Y, Michor F. Stochastic tunneling of three mutations in a population of cancer cells. [Manuscript in preparation]

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

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.

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, Koelle K. Virological and immunological factors impacting the development of antibody breadth during 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.

Conferences

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 Conference, 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, Gimp

Intermediate Matlab, C, C++, Mathematica, Prism, Blender, ImageJ

Basic Java, R, Django, Node.JS

Languages

Native Proficiency Swedish, English, Czech, Polish

Conversational Spanish