Nicole Nova | Curriculum Vitae

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Academic Positions

Duke University — **Durham, NC**
Associate in Research — *2015 – present*
Department of Biology, Koelle Research Group.

Dana-Farber Cancer Institute / Harvard School of Public Health — **Boston, MA**
Research Trainee — *2014 – 2015*
Department of Biostatistics and Computational Biology, Michor Lab.

Education

Royal Institute of Technology (KTH) — **Stockholm, Sweden**
Electrical Engineering — *2012 – 2013*
GPA 4.94/5.00

Karolinska Institutet — **Stockholm, Sweden**
D.D.S., M.Sc. in Dental Surgery — *2007 – 2012*
- Thesis: *Chronic inflammation and pain: Assessment of c-Fos and ATF-3 as markers of spinal neuronal activity in a pain model of rheumatoid arthritis*
- Advisors: Per Alstergren, D.D.S., Ph.D. & Camilla Svensson, Ph.D.

International English Gymnasium — **Stockholm, Sweden**
Diploma of Natural Sciences — *2004 – 2007*
Extended curriculum by 300 credits (2800/2500): GPA 20.0/20.0 + honors 2.5/2.5

Research Experience

Royal Institute of Technology (KTH) — **Stockholm, Sweden**
Robotics Programmer — *Spring 2013*
- Project: *Autonomous Robot Accomplishing Standstill Balance and Forward Motion Using Segway Technology*
- Supervisor: Dr. Cristian Rojas, Automatic Control Laboratory, School of Electrical Engineering.

Karolinska Institutet — **Stockholm, Sweden**
Research Program in Medical Sciences — *Summer 2010*
- Project: *Assessment of c-fos as a marker of spinal neuronal activity in a pain model of rheumatoid arthritis*
- Supervisor: Dr. Camilla Svensson, Department of Physiology and Pharmacology.

Australian National University (ANU) **Canberra, Australia**
National Youth Science Forum (NYSF) *Summer 2008*
Recipient of a scholarship to attend an international science camp, sponsored by the *Australian Rotary Club.*

Massachusetts Institute of Technology (MIT) **Cambridge, MA**
Research Science Institute (RSI) *Summer 2007*
Recipient of a scholarship to attend a summer research program for high school students, held at MIT and organized by the Center for Excellence in Education (CEE).

- Project: *What does performance on one visual search task tell you about performance on another?*
- Supervisor: Prof. Jeremy Wolfe, Department of Brain and Cognitive Sciences, Harvard Medical School / Brigham and Women's Hospital.

Karolinska Institutet **Stockholm, Sweden**
Research Program in Biomedical Sciences *Summer 2006*

- Project: *Activation of Liver X Receptor affects the function and differentiation of osteoclasts*
- Supervisor: Dr. Kirsten Robertson, Department of Biosciences and Nutrition.

Publications

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. Vision Sciences Society, Naples, USA, May 2008.

Work & Clinical Experience

Research Academy for Young Scientists (Rays) **Strängnäs, Sweden**
Committee Member, Mentorship Director, Speaker *2011 – 2013*
Employment at a prestigious research program for high school students in Sweden.

Queen Mary's School of Medicine and Dentistry **London, UK**
ERASMUS Exchange Studies in Dentistry *Spring 2011*

European Dental Students' Association (EDSA) **Dublin, Ireland**
President, Co-Founder of EDSA Research Program *2010 – 2011*

Medical University of Vienna **Vienna, Austria**
Surgical Assistant *Summer 2010*

- Department of Cranio-, Maxillofacial and Oral Surgery, General Hospital (AKH)
- Supervisor: Prof. Dr. Dr. Rolf Ewers.

Chiemsee Akademie & Maxillofacial Federation (MFF) **Munich, Germany**
International Student Training Course in Dental Implantology *Fall 2010*

Swedish Federation of Young Scientists (FUF) **Stockholm, Sweden**
Committee Member *2007 – 2009*
Member of the executive committee for the annual National Science Fair for senior high school students, in charge of lectures and event logistics.

Awards & Scholarships

2013: Google Grant – *Women in Tech Conference and Travel Grant (EMEA)* to attend the EuroBSDcon 2013 Conference, Hilton Conference Center, St. Julian's, Malta.

2011: *ERASMUS Exchange Scholarship* – for university studies in Europe.

2008: *Australian Rotary Club Scholarship* – to attend National Youth Science Forum at ANU.

2007: Valedictorian – Best student of class 2007 at International English Gymnasium.

2007: First Prize in the Swedish National Science Fair – *Knut and Alice Wallenbergs Scholarship* to attend a research program (RSI) at MIT.

Talks & Conferences

Mathematical Biosciences Institute (MBI), Ohio State University — **Columbus, OH**
Evolutionary Game Theory - Workshop — *April 26 - May 1, 2015*

University of Georgia — **Athens, GA**
Ecology & Evolution of Infectious Diseases (EEID) - Conference — *May 26 - 29, 2015*

University of North Carolina at Greensboro (UNCG) — **Greensboro, NC**
REU Summer Program in Mathematical Biology, Department of Mathematics — *June 2, 2015*
Invited speaker. Title of talk: *Mathematical Modeling in Cancer and Infectious Diseases*

Karolinska Institutet — **Stockholm, Sweden**
30th Jubilee Symposium of Research Program in Biomedicine — *June 8, 2015*
Invited speaker. Title of talk: *Mathematical Modeling in the Biosciences*

Teaching

Research Academy for Young Scientists (Rays) — **Strängnäs, Sweden**
Class in Scientific Paper Writing — *Summer 2013*

Computer Skills

Advanced: python, html/CSS/JS, LaTeX, Linux, Gimp

Intermediate: MATLAB, C, C++, Bash, Mathematica, Prism, Blender, ImageJ

Basic: java, R, Django, Node.JS, BSD

Languages

Proficient: Swedish, English, Czech, Polish — *Native Proficiency*

Intermediate: Spanish — *Conversational*

Audited courses

Harvard University (SEAS)
Applied Mathematics 141r. Mathematical Modeling of Cancer *Spring 2015*
Prof. Franziska Michor

MOOC-courses

MITx **2.03x**
Dynamics *2013 edX*
Prof. David Gossard
Grade: A (94%)

École Polytechnique Fédérale de Lausanne **BIO465x**
Neuronal Dynamics *2013 edX*
Prof. Wulfram Gerstner
Grade: A (92%)

RICEx **PHYS102x**
Electricity & Magnetism *2013 edX*
Assoc. Prof. Jason Hafner
Grade: A (94%)