

ARJUN M. NAIR

ADDRESS: Department of Ecology and Evolutionary Biology
University of California, Irvine
321 Steinhaus Hall
Irvine, CA 92697-2525

PHONE: (530) 574-3818

E-MAIL: arjunnair0513@yahoo.com

EDUCATION

- 2011 - Present **University of California, Irvine**, Irvine, CA. Ph.D in Ecology & Evolution
Advisor: Matthew J. McHenry
- 2007- 2011 **University of California, Davis**, Davis, CA. B.S in Biomedical Engineering
Emphasis: Systems Engineering with a computational background

EXPERIENCE

- 2012 - Present **Graduate Student**. Dept. of Ecology and Evolution,
University of California, Irvine.
- 2011 - 2012 **System Biology Graduate Fellow**. Center for Complex Biological Systems,
University of California, Irvine.
- 2010 - 2011 **Undergraduate Researcher**. Dept. of Biomedical Engineering,
University of California, Davis.
- 2009 - 2011 **Undergraduate Researcher**. Genome Center,
University of California, Davis.
- 2009 **Undergraduate Researcher**. Stanford Genome Technology Center,
Stanford University.
- 2008 **Undergraduate MATLAB Software Developer**. NASA Ames Research Field.

AWARDS, FELLOWSHIPS, & Grants

- 2013 **Best Student Poster Presentation**. Division of Comparative Biomechanics,
SICB annual meeting, San Francisco, CA.

- 2013-2014 **AGS Travel Grant.** Funded by the UCI Associated Graduate Student Body and awarded \$400 for travel.
- 2011 - 2012 **Mathematical, Computational Biology Fellowship.** Funded Howard Hughes Medical Institute (HHMI), the National Institutes of Health, and the UCI Graduate Division.
- 2009 - 2011 **Dean's Honor list.** School of Engineering, University of California, Davis.

PUBLICATIONS

Stewart W, Nair A, Jiang H, McHenry M, “Prey fish escape by sensing the bow wave of a predator.” *Journal of Experimental Biology*. *In press*.

Skommer J, Das SC, Nair A, Brittain T, Raychaudhuri S.
“Nonlinear regulation of commitment to apoptosis by simultaneous inhibition of Bcl-2 and XIAP in leukemia and lymphoma cells.” *Apoptosis*. 2011 Jun;16(6):619-26.

CONFERENCE PRESENTATIONS

Nair, A., Azatian, G., McHenry, M.; “The fast starts in larval zebrafish creates 3D maneuvers.” Oral presentation, ” SICB 2014 Annual Meeting. Austin, TX, January 4, 2014.

Nair, A., Stewart, W., Jiang, H., McHenry, M.; “Optimal approach strategies for fish predators based on prey’s lateral line system.” Conference poster, SICB 2013 Annual Meeting. San Francisco, CA, January 4, 2013.

Nair, A.; “A Monte Carlo Computational Study of Cancer Cell Death.” Oral presentation, ” 22nd annual Undergraduate Research Scholarship and Creative Activities Conference. Davis, CA, April 30, 2011.

SYNERGISTIC ACTIVITIES

Orange County Science and Engineering Fair. Judge for the junior and senior division of Fluids, aerodynamics, and thermodynamics section. Costa Mesa, CA, April 2013.

Orange County Science and Engineering Fair. Judge for the junior and senior division of Physiology section. Costa Mesa, CA, April 2014.

Fish Feeding K-12 Teaching Module. Created and ran a multi-day teaching module for middle school science classes. This was done with an Outreach emphasis to encourage students in a Title 1 school to take interest in STEM fields. Spurgeon Middle School, Santa Ana, CA, May 2014.

UCI Bridges to Baccalaureate Mentor. Mentored community college students from under presented minority groups. Taught and assisted student in conducting experiments, analyzing data, and presenting studying to general audiences.

TEACHING HISTORY

Learning MATLAB Workshop. Created and ran a 6 day module teaching graduate students, postdoctoral fellows, and faculty the basics of MATAB and general programming. The course also included many examples of how to manage and analyze data from experiments using MATLAB.

Fish Feeding K-12 Teaching Module. Created and ran a multi-day teaching module for middle school science classes, teaching the principles of fish feeding and relating them to Ecology and Evolution. This module involved students receiving lecture on various biological topics and later doing experiments and activities to enrich and access learning. Spurgeon Middle School, Santa Ana, CA, May 2014.

Undergraduate Advisor:

- Christy Ngoc-Uyen Nguyen (2014 - Present)
- Philip Paik (2013 - Present)
- Katherine Cardenas, UCI Bridges Scholar (Summer 2014)
- Grigor Azatian (2013 - 2014)
- Kelsey Changsing (2013 - 2014)

Teaching Assistant Teaching History:

- Physiology Lab (Fall 2012, Spring 2013, Winter 2014, Fall 2014)
- Mediterranean Ecosystems (Winter 2013)
- Animal Sensation and Locomotion (Fall 2013)
- Mechanical Physiology (Spring 2014)

RELATED COURSEWORK

University of California, Irvine

2013	Population and Community Ecology, BIO SCI E186
2013	Writing Grant Proposals, ECO EVO 204
2012	Systems Developmental Biology, DEV BIO 203C
2012	Systems Cell Biology, DEV BIO 232
2011	Biophysics of Molecules and Molecular Machines, PHYSICS 230A

University of California, Davis:

2011	Introduction to the Biophysics of Molecules and Cells, BIM 162
2010	Biomedical Signals and Control, BIM 108
2010	Biomaterials, BIM 109
2010	Analysis of Molecular and Cellular Networks, BIM 117
2010	Biotransport Phenomena, BIM 106

2010 Thermodynamics, ENG 105
2010 Introduction to Dynamic Models in Modern Biology, BIS 132
2009 Gene and Gene Expression, BIS 101
2009 Physiology for Biomedical Engineers, BIM 116