

Nigel A. D'souza

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EDUCATIONAL QUALIFICATIONS:

- M.Sc. Zoology (Molecular Biology), (2003-05) University of Pune, Pune, MH, India.
- B.Sc., Microbiology,(2000-03) H.V.D. College, University of Pune, Pune, MH, India.
- H.S.C., (1998-2000) Loyola Junior College, Pune, MH, India.
- S.S.C., (1988-1998) Loyola High School, Pune, MH, India.

PRESENT STATUS:

- Graduate student (PhD Program) in Biological Sciences (2007 – Present), Bowling Green State University, Bowling Green, OH, USA.

AFFILIATIONS / SCIENTIFIC SOCIETIES:

- Student member, International Association for Great Lakes Research (IAGLR). (2008 – Present)

WORK / RESEARCH EXPERIENCE:

- **Research Fellow: (2005 – 2007)**

Research Fellow (Indian Space Research Organization (ISRO) and University of Pune Joint research program) at the Molecular Biology Research Laboratory, [M.B.R.L.], Department of Zoology, University of Pune.

TOPIC: Development of an optical waveguide based CO / CO₂ sensor using biomaterials.

ADVISORS: Dr Deepti D. Deobagkar and Dr. R.C. Aiyer.

- **Masters Research: (2003 – 2005)**

Topic: Study of *Chironomus* hemoglobin: The effect of dietary iron and oxygen availability on the hemoglobin of *Chironomus ramosus* larvae, and its biological implications.

ADVISOR: Dr. B. B. Nath.

PAPERS COMMUNICATED:

- Babrekar A.A.; Desai S., **D'souza N.** & Nath B.B. (2008) Consequences of dietary iron modulation on the respiratory function in a tropical midge, *Chironomus ramosus*. (Manuscript in communication)

TEACHING EXPERIENCE:

- Teaching Assistant, Department of Biological Sciences, Bowling Green State University. (2007 – Present).

COURSES TAUGHT:

- **BIOL 204 Lab (Concepts in Biology I)**
- **BIOL 205 Lab (Concepts in Biology II)**

SYMPOSIUMS AND CONFERENCES ATTENDED:

- Great Lakes Aquatic Ecosystem Research Consortium at Stone Laboratory (Ohio State University), Gibraltar Island, OH, USA. 2008.
- Annual IAGLR (International Association for Great Lakes Research) Conference at Trent University, Peterborough, ON, Canada. 2008.
- National Symposium on “Recent Trends In Modern Biology” at University of Pune , India. 2006.
- National Symposium on “Recent Trends In Modern Biology” at University of Pune , India. 2005.
- The 27th All India Cell Biology Conference and International Symposium on *Frontiers in Biomedical Research and Technologies Biomedical Sciences* at University of Pune, India. 2004.

POSTERS PRESENTED:

- Nigel A. D'souza, Swapnil S. Gaikwad, Anu Pillai, Dr. R. C. Aiyer, Dr. A. Kulkarni, And Dr. D. D. Deobagkar. *Optical Waveguide based Gas sensors and Microbe sensors using Biomaterials*. National Symposium on “Recent Trends In Modern Biology” at University of Pune , India. 2006.
- Nigel A. D'souza, George S. Bullerjahn and R. M. L. Mckay. *Microbial production in ice-covered Lake Erie*. Departmental Research Retreat at the Department of Biological Sciences, Bowling Green State University. Ohio, USA. 2008.

RESEARCH INTERESTS

- Microbial Ecology
- Limnology
- Bio-Geochemical Cycling
- Molecular Ecology

COMPUTER KNOWLEDGE:

- Basics in computers and internet applications.
- Diploma course in Computer Hardware and Networking (Indian Institute Of Hardware Technology – IIHT)
- Biostatistics and Quantitative techniques in biology.
- Familiarity with Bioinformatics tools (as studied at the masters degree level).

LANGUAGES:

- English
- Hindi
- Marathi
- Konkani
- German (Basic)

CO-CURRICULAR ACTIVITIES:

- National Level Elementary grade drawing exam (India).
- School and college certificates in Basketball, Soccer, Hockey, Swimming, Volleyball and Athletics.
- Inter-college Basketball.
- Participation in Inter-College Elocution competitions
- Represented the University of Pune at the annual inter-university P.C.Alexander elocution competition (English) in Mumbai.
- University of Pune representative at the Independence Day function (2004) at the Governor's residence, Pune, India.
- Treasurer, St. Anthony's Parish Youth Group (Pune, India).
- President, St. Anthony's Parish Youth Group (Pune, India).
- **General interests:** Trekking, Hiking, Landscape and Wildlife Photography, Maintaining Aquariums, Playing the Guitar, Reading, Music, Movies, Painting and Sketching.

(Last updated: November 16th, 2008.)