

Abhilesh Dhawanjewar

PH.D. CANDIDATE · EVOLUTIONARY BIOLOGY

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Education

Ph.D. in Evolutionary Biology

UNIVERSITY OF NEBRASKA-LINCOLN, USA

Advisors: Dr. Kristi Montooth & Dr. Colin Meiklejohn

Expected 2020

Integrated B.S.-M.S. Dual Degree

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, PUNE, INDIA

Advisor: Dr. M.S. Madhusudhan

Aug 2010 - May 2015

Publications

JOURNAL ARTICLES

Dhawanjewar A.S.*, Roy A.A.*, & Madhusudhan M.S. (2020). A knowledge-based scoring function to assess the stability of quaternary protein assemblies. *Oxford Bioinformatics (Accepted, In press)*

Roy, A.A.*, **Dhawanjewar, A.S.***, Sharma, P., Singh, G., & Madhusudhan, M.S. (2019). Protein Interaction Z Score Assessment (PIZSA): an empirical scoring scheme for evaluation of protein-protein interactions. *Nucleic acids research*, 47(W1), W331-W337

Montooth, K.L., **Dhawanjewar, A.S.**, & Meiklejohn, C.D. (2019). Temperature-sensitive reproduction and the physiological and evolutionary potential for Mother's Curse. *Integrative and comparative biology*, 59(4), 890-899.

Nelson, T.C., Jones, M.R., Velotta, J.P., **Dhawanjewar, A.S.**, & Schweizer, R.M. (2019). UNVEILING connections between genotype, phenotype, and fitness in natural populations. *Molecular ecology*, 28(8), 1866-1876.

Dhawanjewar A.S., Meese S., Baba Y., Tanaka K., Li S., Uhl G., Krehenwinkel H. A genome-wide phylogeography of a highly dispersive Palearctic spider provides insights into the causes of incongruent divergence of mitochondrial and nuclear genomes. *Journal of Biogeography (Submitted)*

* Equal contribution

WEB-SERVERS

Prediction of Stable Quaternary Protein Assemblies -

PIZSA (Protein Interaction Z-score Assessment) - <http://cospi.iiserpune.ac.in/pizsa/>

Honors & Awards

Milton E. Mohr Fellowship, UNL Center for Biotechnology (\$1000)	2019
Suzanne O. Prather Memorial Fund, University of Nebraska Foundation (\$1500)	2019
Runner-Up Best Poster Award, School of Biological Sciences, UNL (\$50)	2019
AAAS/Science Program for Excellence in Science, American Association for the Advancement of Science	2019
Jessie A. Lee Fund, School of Biological Sciences, UNL (\$2000)	2018
Best Poster Award, School of Biological Sciences, UNL (\$100)	2018
Conference Registration Award, Society for Molecular Biology and Evolution (\$450)	2018
Travel Grant, Society for Molecular Biology and Evolution (\$250)	2017
Runner-Up Best Poster Award, School of Biological Sciences, UNL (\$50)	2017
Mary D. Rogick Memorial Fund, School of Biological Sciences, UNL (\$1300)	2017
Travel Grant, Society for the Study of Evolution (\$500)	2016
Blair Paxton Udale Fund for Life Sciences, The University of Nebraska Foundation (\$1500)	2016
Rosemary Grant Award, Society for the Study of Evolution (\$2500)	2016
Travel Grant, The Indian Institute of Science Education and Research, Pune (\$1300)	2014
Travel Grant, The American Society of Naturalists (\$250)	2014
Working Internship, Max Planck Institute for Evolutionary Biology (\$3500)	2013
INSPIRE Scholarship, Department of Science and Technology, India (\$8000)	2010
National Talent Search Examination (NTSE) Scholar, NCERT, India (\$250)	2006

Conference Presentations

INVITED TALKS

The Ethics of Using Genetic Tools for Conservation

UNVEIL SYMPOSIUM 2018

Jun 2018

Missoula, Montana, USA

Population Genomics of the Range-Expanding Populations of *Argiope bruennichi*

20TH INTERNATIONAL CONGRESS OF ARACHNOLOGY

Jul 2016

Golden, Colorado, USA

ORAL PRESENTATIONS

Compensatory Evolution of Disease Associated Residues in the Oxidative Phosphorylation (OXPHOS) pathway *

SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION MEETING

Jun 2020

Québec City, Canada

Environmental Modification of Mitochondrial-Nuclear Epistasis in Shaping Thermal Male Sterility in *Drosophila*

UNVEIL SYMPOSIUM 2018

Jun 2018

Missoula, Montana, USA

Mitochondrial-Nuclear Interactions and the Thermal Sensitivity of Male Reproduction

MITOCHONDRIAL GENOMICS AND EVOLUTION, AN SMBE SATELLITE MEETING

Sep 2017

Ein Gedi, Israel

POSTER PRESENTATIONS

Compensatory Evolution of Disease Associated Residues in the Mitochondrial Genome

2ND UNVEIL SYMPOSIUM 2019

Oct 2019

Lincoln, Nebraska, USA

Structural Compensation of Disease Associated Residues in the Mitochondrial Genome

EUROPEAN SOCIETY FOR EVOLUTIONARY BIOLOGY MEETING

Aug 2019

Turku, Finland

Mitochondrial Diseases and Compensated Pathogenic Deviations

SOCIETY FOR INTEGRATIVE AND COMPARATIVE BIOLOGY MEETING

Jan 2019

Tampa, Florida, USA

Genetic and Environmental Factors Underlying the Thermal Sensitivity of Male Reproduction

SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION MEETING

Jul 2018

Yokohama, Japan

Mitochondrial-Nuclear Interactions and the Thermal Sensitivity of Male Reproduction

UNIVERSITY OF NEBRASKA-LINCOLN SPRING RESEARCH FAIR

Apr 2017

Lincoln, Nebraska, USA

Mitochondrial-Nuclear Interactions and the Thermal Sensitivity of Male Reproduction

58TH ANNUAL DROSOPHILA RESEARCH CONFERENCE

Mar 2017

San Diego, California, USA

Prediction of Protein-Protein Interactions through the use of Statistical Potentials

BIOPHYSICS PASCHIM MEETING

Mar 2015

Mumbai, India

Comparative Mitogenomic Analysis in the Range-Expanding Populations of *Argiope bruennichi*

QEVOLUTION2014, WORKSHOP ON QUANTITATIVE EVOLUTIONARY BIOLOGY

Sep 2014

Şirince, Turkey

* Conference cancelled due to COVID-19 concerns

Outreach

My Captain Discover Mentor, The Climber	2018
Scientists in Cars Getting Coffee, Film Festival, SciComm 2018	2018
Master of Ceremonies, Lighting Talks and Film Festival, SciComm 2018	2018
Boys and Girls Science Club, Park Middle School, Lincoln Community Learning Centers	2016-2017
Junior Sunday with a Scientist, Nebraska State Museum	2017
Sunday with a Scientist: Diversity of Life in Nebraska, Nebraska State Museum	2017
Sunday with a Scientist: Darwin Day, Nebraska State Museum	2017
Science Night Live Moderator, SciComm 2016	2016
Sunday with a Scientist: Evolution on the Wing, Nebraska State Museum	2016
Junior Sunday with a Scientist, Nebraska State Museum	2016
Investigate: Show-and-tell Amblypygi, Nebraska State Museum	2016
Science Tutoring for less-privileged high school students, Pune, India	2013-2015

Teaching

Guest Lecture, **BIOS 897- Communicating Science Through Outreach**
Teaching Assistant, **LIFE 120L - Fundamental Biology Lab**
Teaching Assistant, **LIFE 120L - Fundamental Biology Lab**
Teaching Assistant, **BIOS 101L - General Biology Lab**

Spring 2017, 2018
Spring 2019
Fall 2016 - Fall 2017
Fall 2015 - Spring 2016

Professional Service

Organizing Committee, **SciComm 2020: A Conference on Effective Science Communication** 2020
Workshop co-organizer: Ethics of Biotechnology Applications to Conservation Biology, **UNVEIL Symposium 2018** 2018
Grad Student Volunteer, Strategic Vision Committee, **School of Biological Sciences, UNL** 2018
Vice President, **Biology Graduate Students Association, UNL** 2017-2019
Undergraduate Poster Judge, **UNL Spring Research Fair** Spring 2018, 2019

Memberships

European Society for Evolutionary Biology (ESEB) 2019-2020
The Society for Integrative and Comparative Biology (SICB) 2019-2020
American Association for the Advancement of Science (AAAS) 2019-2020
Genetics Society of America (GSA) 2017-2019
Society for the Study of Evolution (SSE) 2016-2019
Society for Molecular Biology and Evolution (SMBE) 2018-2020
International Society of Arachnologists (ISA) 2016-2017
American Society of Naturalists (ASN) 2014-2015