# Abhilesh Dhawanjewar

Ph.D. Candidate · Evolutionary Biology

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## Education \_\_\_

### Ph.D. in Evolutionary Biology

Expected 2021

UNIVERSITY OF NEBRASKA-LINCOLN, USA

Advisors: Dr. Kristi Montooth & Dr. Colin Meiklejohn

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

Aug 2010 - May 2015

Indian Institute of Science Education and Research, Pune, India

Advisor: Dr. M.S. Madhusudhan

## **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*, *36*(12), *3739-3748*.

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*.

#### WEB-SERVERS

Prediction of Stable Quaternary Protein Assemblies -

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

## Honors & Awards

Blair Paxton Udale Fund for Life Sciences, <b>The University</b>	of Nebraska Foundation (\$500)	2020
Milton E. Mohr Fellowship, UNL Center for Biotechnology	(\$1000)	2019
Suzanne O. Prather Memorial Fund, University of Nebrasl	ka Foundation (\$1500)	2019
Runner-Up Best Poster Award, School of Biological Science	ces, UNL (\$50)	2019
AAAS/Science Program for Excellence in Science, American	n 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 Bio	ology and Evolution (\$450)	2018
Travel Grant, Society for Molecular Biology and Evolution	n (\$250)	2017
Runner-Up Best Poster Award, <b>School of Biological Scien</b>	ces, UNL (\$50)	2017
Mary D. Rogick Memorial Fund, School of Biological Scien	nces, UNL (\$1300)	2017
Travel Grant, Society for the Study of Evolution (\$500)		2016
Blair Paxton Udale Fund for Life Sciences, <b>The University</b>	of Nebraska Foundation (\$1500)	2016
Rosemary Grant Award, Society for the Study of Evolution	on (\$2500)	2016
Travel Grant, The Indian Institute of Science Education a	ind Research, Pune (\$1300)	2014
Travel Grant, The American Society of Naturalists (\$250)		2014
Working Internship, Max Planck Institute for Evolutional	ry Biology (\$3500)	2013
INSPIRE Scholarship, <b>Department of Science and Techno</b>	ology, India (\$8000)	2010
National Talent Search Examination (NTSE) Scholar, NCER	T, India (\$250)	2006

<sup>\*</sup> Equal contribution

## **Conference Presentations**

#### INVITED TALKS

The Ethics of Using Genetic Tools for Conservation

UNVEIL SYMPOSIUM 2018 Missoula, Montana, USA

Population Genomics of the Range-Expanding Populations of Argiope bruennichi

Jul 2016 Golden, Colorado, USA

20<sup>TH</sup> INTERNATIONAL CONGRESS OF ARACHNOLOGY

#### ORAL PRESENTATIONS

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

Jun 2018

SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION MEETING

Québec City, Canada

Missoula, Montana, USA

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

Jun 2018

Mitochondrial-Nuclear Interactions and the Thermal Sensitivity of Male Reproduction

Sep 2017

MITOCHONDRIAL GENOMICS AND EVOLUTION, AN SMBE SATELLITE MEETING

Ein Gedi, Israel

#### POSTER PRESENTATIONS

2<sup>ND</sup> UNVEIL SYMPOSIUM 2019

UNVEIL SYMPOSIUM 2018

Compensatory Evolution of Disease Associated Residues in the Mitochondrial Genome

Oct 2019

Structural Compensation of Disease Associated Residues in the Mitochondrial Genome

Lincoln, Nebraska, USA

**EUROPEAN SOCIETY FOR EVOLUTIONARY BIOLOGY MEETING** 

Aug 2019 Turku, Finland

Mitochondrial Diseases and Compensated Pathogenic Deviations

Jan 2019

SOCIETY FOR INTEGRATIVE AND COMPARATIVE BIOLOGY MEETING

Tampa, Florida, USA

Genetic and Environmental Factors Underlying the Thermal Sensitivity of Male Reproduction

Jul 2018

SOCIETY FOR MOLECULAR BIOLOGY AND EVOLUTION MEETING

Yokohama, Japan

Mitochondrial-Nuclear Interactions and the Thermal Sensitivity of Male Reproduction

Apr 2017

University of Nebraska-Lincoln Spring Research Fair

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

Mar 2015

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

Mumbai, India

**QEVOLUTION2014, WORKSHOP ON QUANTITATIVE EVOLUTIONARY BIOLOGY** 

Sep 2014

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## Outreach\_

**BIOPHYSICS PASCHIM MEETING** 

Organiser & Lightning Talks and Film Festival Master of Ceremonies, <b>SciComm 2020</b>	2020
My Captain Discover Mentor, <b>The Climber</b>	2018
Scientists in Cars Getting Coffee, Film Festival, SciComm 2018	2018
Master of Ceremonies, Lighting Talks and Film Festival, <b>SciComm 2018</b>	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, <b>Nebraska State Museum</b>	2017
Sunday with a Scientist: Darwin Day, <b>Nebraska State Museum</b>	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, <b>Nebraska State Museum</b>	2016
Science Tutoring for less-privileged high school students, <b>Pune, India</b>	2013-2015

<sup>\*</sup> Conference cancelled due to COVID-19 concerns

# Teaching\_\_\_\_\_

Guest Lecture, **BIOS 897- Communicating Science Through Outreach**Teaching Assistant, **LIFE 121L - Fundamental Biology Lab II**Teaching Assistant, **LIFE 120L - Fundamental Biology Lab I**Teaching Assistant, **LIFE 120L - Fundamental Biology Lab I**Teaching Assistant, **LIFE 120L - Fundamental Biology Lab I**Teaching Assistant, **BIOS 101L - General Biology Lab**Fall 2015 - Spring 2016

## Professional Service

Organizing Committee, SciComm 2020: A Conference on Effective Science Communication	2020
Graduate Student Representative, UNL oSTEM Conference 2020	2020
Workshop co-organizer: Ethics of Biotechnology Applications to Conservation Biology, <b>UNVEIL Symposium 2018</b>	2018
Grad Student Volunteer, Strategic Vision Committee, <b>School of Biological Sciences, UNL</b>	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