

# 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. (2019). A knowledge-based scoring function to assess the stability of quaternary protein assemblies. *Oxford Bioinformatics (In revision)*

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

## Conference Presentations

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### INVITED TALKS

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

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

Jul 2016

Golden, Colorado, USA

### ORAL PRESENTATIONS

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

UNVEIL SYMPOSIUM 2018

Jun 2018

Missoula, Montana, USA

#### The Ethics of Using Genetic Tools for Conservation

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

#### 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

58<sup>TH</sup> 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

## Outreach

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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

## Teaching

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Guest Lecture, **BIOS 897- Communicating Science Through Outreach**

Spring 2017, Spring 2018

Teaching Assistant, **LIFE 120L - Fundamental Biology Lab**

Spring 2019

Teaching Assistant, **LIFE 120L - Fundamental Biology Lab**

Fall 2016 - Fall 2017

Teaching Assistant, **BIOS 101L - General Biology Lab**

Fall 2015 - Spring 2016

## Service

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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, Spring 2019