

# 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 2021

### 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

#### 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*

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

#### 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

2<sup>ND</sup> 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

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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My Captain Discover Mentor, <b>The Climber</b>	2018
Scientists in Cars Getting Coffee, <b>Film Festival, SciComm 2018</b>	2018
Master of Ceremonies, Lighting Talks and Film Festival, <b>SciComm 2018</b>	2018
Boys and Girls Science Club, Park Middle School, <b>Lincoln Community Learning Centers</b>	2016-2017
Junior Sunday with a Scientist, <b>Nebraska State Museum</b>	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, <b>SciComm 2016</b>	2016
Sunday with a Scientist: Evolution on the Wing, <b>Nebraska State Museum</b>	2016
Junior Sunday with a Scientist, <b>Nebraska State Museum</b>	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

## Teaching

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Guest Lecture, <b>BIOS 897- Communicating Science Through Outreach</b>	Spring 2017, 2018
Teaching Assistant, <b>LIFE 120L - Fundamental Biology Lab</b>	Spring 2019
Teaching Assistant, <b>LIFE 120L - Fundamental Biology Lab</b>	Fall 2016 - Fall 2017
Teaching Assistant, <b>BIOS 101L - General Biology Lab</b>	Fall 2015 - Spring 2016

## Professional Service

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Organizing Committee, <b>SciComm 2020: A Conference on Effective Science Communication</b>	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, <b>Biology Graduate Students Association, UNL</b>	2017-2019
Undergraduate Poster Judge, <b>UNL Spring Research Fair</b>	Spring 2018, 2019

## Memberships

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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