

# DARAKSHAN ZABIN

GRADUATE STUDENT • ARIZONA STATE UNIVERSITY • SCHOOL OF LIFE SCIENCES

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## EDUCATION

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**Master of Science in Biology** 2021 - 2023  
Arizona State University, Tempe, AZ, USA

**Bachelor of Science in Botany** 2017 - 2020  
University of Delhi, New Delhi, India

## EMPLOYMENT HISTORY

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**Graduate Research Assistant** 2022 - Present  
Arizona State University, Tempe, AZ, USA

**Graduate Teaching Assistant**, School of Life Sciences, 2022 - Present  
Arizona State University, Tempe, AZ, USA

## RESEARCH EXPERIENCE

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**Breath Analysis to Access and Predict State of Fatigue** Feb 2022 - Present

Project Title: Estimating and predicting the state of fatigue by creating an integrated suite of algorithms leveraging breath analysis and various wearable biomarkers to access and predict fatigue  
Role: Research Assistant, Advisor: Heather D. Bean  
Arizona State University, Tempe, AZ

**Green Synthesis of Silver Nanoparticles** Sept 2018 - Aug 2021

Project Title: Green Synthesis and Characterization of Silver Nanoparticles using Leaf Extracts of Medicinal Plants and its Impact on *Anabaena doliolum*  
Role: Undergraduate Research Assistant, Advisor: Garvita Singh  
University of Delhi, New Delhi, India

**Targeted Drug Delivery in Cancer Therapeutics** Apr 2019 - Jul 2019

Project Title: Targeted Drug Delivery system for Cancer Diagnostics, Therapeutics, and Imaging. Evaluation and Investigation of Thermosensitive Chitosan Beta Glycerophosphate Hydrogel as a Suitabl Drug Carrier  
Role: Summer Research Intern, Advisor: Ashok N. Bhaskarwar  
Indian Institute of Technology, New Delhi, India

## TEACHING EXPERIENCE

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**BIO 201, Arizona State University, Tempe, AZ** Fall 2022

Human Anatomy/Physiology I Laboratory, Sections: 70110 and 70117, 48 Students  
Role: Graduate Teaching Assistant  
Advisor: Heather Hutcherson

**BIO 181, ASUONLINE** Summer 2022

General Biology I Laboratory, Session B  
Role: Grader  
Advisor: Zachry Shaffer

**BIO 201 ASUONLINE**

Summer 2022

Human Anatomy/Physiology I Lecture, Session A  
Role: Grader  
Advisor: Delon Washo-Krupps

**BIO 182**

Spring 2022

General Biology II Laboratory, Sections: 35421 and 35442, 48 Students  
Role: Graduate Teaching Assistant  
Advisor: Kim Michel

**BIO 181**

Fall 2021

General Biology I Laboratory, Sections: 71765 and 71767, 48 Students  
Role: Graduate Teaching Assistant  
Advisor: Richard Clarke

**PUBLICATIONS**

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Peer Reviewed Journal

**Zabin, D.**, Shekher, A., Yadav, M., Soni, R., & Singh, G. (2022). Synthesis and Characterization of Silver Nanoparticles using Leaf Extracts of Medicinal plants and its Impact on *Anabaena doliolum*. *JOURNAL OF SCIENTIFIC RESEARCH*, 66(01), 209–223. <https://doi.org/10.37398/jsr.2022.660123>

Peer Reviewed Book Chapter

Kaur, P., Agarwal, P., **Zabin, D.**, Islam, F., & Das, A. (2022, October 20). Chapter 5. Cyanobacteria as a Promising Bioresource for Applications in Sustainable Agriculture, Medicine, and Green Nanotechnology. <https://novapublishers.com/shop/cyanobacteria-life-history-ecology-and-impact-on-humans/>. <https://doi.org/10.52305/STKS9486>

**AWARDS**

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**Pathfinder Project Award**

Feb 2020

Annual Award Granted To The Most Innovative Project, University of Delhi

**Best Presentation Award**

Feb 2019

National Symposium on Microbes and Nanotechnology for Sustainable Environment, Indian Society of Analytical Scientists - Delhi Chapter

**CONFERENCE PRESENTER**

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**Zabin, D.** Synthesis and Characterization of Silver Nanoparticles using Leaf Extracts of Medicinal plants and its Impact on *Anabaena doliolum*, BioSci Southwest Symposium, Arizona State University, Tempe, USA

Sep 2021

**Zabin, D.** Synthesis and Characterization of Silver Nanoparticles using Medicinal Plants, Poster Presenter, Department of Biotechnology Popularization program, University of Delhi, India

Aug 2019

**Zabin, D.**, Shekher, A. Sustainable Synthesis of Silver Nanoparticles and its Effect on *Anabaena doliolum*. Symposium on Changing Scenario of Microbes in New Era In Association with The Indian Society of Analytical Scientists (ISAS), Delhi Chapter, India

Feb 2019

**SKILLS**

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R Programming Language, X-Ray Diffractometer, Spectrophotometer, Transmission Electron Microscope