

JENNIFER HILL

Maricopa, AZ • (602) 330-8846 • jihill1@asu.edu

EDUCATION

Arizona State University	Tempe, AZ
MS, Computational Life Sciences	Expected December 2026
University of Arizona	Phoenix, AZ
MPH, Public Health Practice	Spring 2015
University of Arizona	Phoenix, AZ
MS, Nursing	Summer 2014
Arizona State University	Tempe, AZ
MPA, Public Administration	Spring 2005
University of Arizona	Tucson, AZ
BS, Biochemistry	Summer 1997
University of Arizona	Tucson, AZ
BS, Mathematics	Spring 1994
Minor: Computer Science	

RESEARCH INTERESTS

My research interests center on using computational methods to understand key ecological processes and to build models that predict how ecosystems—and particularly species distributions—respond to human-driven environmental change.

RESEARCH EXPERIENCE

University of Arizona	Tucson, AZ
<i>Research Technician, Department of Entomology</i>	1997-1999
<ul style="list-style-type: none">Collect and analyze data on retrotransposons of the <i>Aedes aegypti</i> mosquito using molecular biology techniques, such as PCR and gel electrophoresis.	
University of Arizona	Tucson, AZ
<i>Undergraduate Research Assistant, Division of Neurobiology</i>	1995-1997
<ul style="list-style-type: none">Developed a method of analyzing tomato plant headspace volatiles by gas chromatography/mass spectrometry.	

PUBLICATIONS

Tu, Z. & Hill, J. J. (1999). *Mosqul*, a novel family of mosquito retrotransposon distantly related to the *Drosophila* I factors, may consist of elements of more than one origin. *Molecular Biology and Evolution*, 16(12), 1675-1686.
<https://doi.org/10.1093/oxfordjournals.molbev.a026081>

PRESENTATIONS

Hill, JJ. (1997). *Tomato Plant Volatile Release: Environmental Effects on Release Rate* [Conference presentation abstract], Undergraduate Biology Research Conference
Mentors: Wendy Mechaber, PhD, John G. Hildebrand, PhD

GRANTS & FELLOWSHIPS

- | | |
|--|-----------|
| • Undergraduate Biology Research Program | 2016-2017 |
| • UA/NASA Space Grant | 2015-2016 |

ACADEMIC SERVICE

Academic Associate, *School of Life Sciences, Arizona State University*, Spring 2025

- Facilitated two General Biology II Labs on the topics of genetics, evolution, population biology, and community ecology

Reviewer, *Journal of Emerging Investigators*, 2024-present

- Reviews completed: 2

Manuscripts reviewed

- Stoica, M. & Dulu, A. (2025). Portable, Accessible, Affordable: Redefining Tree Disease Diagnosis Through VOC Emission Measurements. *Journal of Emerging Investigators*. <https://doi.org/10.59720/24-200>
- Zhang, E. & Hao, Y. (2025). The Impact of Genetic, Drug, and Procedural Factors on Cardiac Xenograft Survival Days in Non-Human Primates. *Journal of Emerging Investigators*. <https://doi.org/10.59720/24-299>

LEADERSHIP & OUTREACH

- | | |
|---|--------------|
| • Volunteer , Sonoran Prevention Works | 2022-present |
| • Primary Education Supervisor , US Peace Corps/Thailand | 2000-2001 |

TECHNICAL SKILLS

Bioinformatics: R Studio, Genomic analysis with high-performance computing, Linux operating system, Bash command line

Wet Lab: Tomato plant volatile collection, Gas chromatography/mass spectrometry, Mosquito DNA extraction, Gel electrophoresis, PCR, Enzyme-linked immunosorbent assay (ELISA)