

JENNIFER WILCOX,

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Ph.D. Candidate, University of Idaho, Department of Biological Sciences
(509) 720-1992 ◊ 301 W Sweet Ave #11 Moscow, ID 83843

EDUCATION

- Ph.D, Biology**, University of Idaho *Expected graduation: May 2026*
- Bachelor of Science in Biology**, Eastern Washington University, *magna cum laude* June 2017
Minor in Chemistry
Awarded biology department undergraduate student of the year in 2017
- Bachelor of Fine Art in Studio Art**, Eastern Washington University, *magna cum laude* Apr 2010

RESEARCH EXPERIENCE

Doctoral Research Assistant 2022 - Present
University of Idaho *Moscow, ID*

Thesis: Ecology and Evolution of Bacteriophage in the Context of Phage Therapy

- Directed bacteriophage evolution to improve fitness in cells treated with antibiotics
- Explored different *E. coli* bacteriophages' ability to replicate in slow-growing cells
- Utilized *Manduca sexta* hornworm model to investigate efficacy of capsule-targeting bacteriophage in *E. coli*

Undergraduate Research Assistant 2015 - 2017
Eastern Washington University *Cheney, WA*

Project: Isolation and analysis of viral DNA for classification of *Diachasmimorpha longicaudata* entomopoxvirus (DLEPV)

- Dissected parasitoid wasps to extract poison glands
- Isolated and amplified viral DNA from wasp venom
- Performed comparative analysis on putative viral proteins for purposes of phylogenetic classification

PUBLICATIONS

Pending Review: Wilcox J, Miller C, Peters T, Bull J, T7 Adaptation to Antibiotics

RESEARCH PRESENTATIONS

Contributed Poster: 25th Biennial Evergreen International Phage Meeting, Olympia, WA 2023
Not Worth the Time: T7 Evolution in the Presence of Antibiotics

Contributed Poster: University of Idaho College of Science Research Expo, Moscow, ID 2022
T7 Bacteriophage Evolution in the Presence of Chloramphenicol

Contributed Poster: National Conference for Undergraduate Research (NCUR), Memphis, TN 2017
*Comparative analysis of *Diachasmimorpha longicaudata* entomopoxvirus early transcription factor genes sets DLEPV apart within the *Entomopoxvirinae**

TEACHING EXPERIENCE

Substitute lecturer, Microbiology, University of Idaho, Moscow, ID 2024
Delivered undergraduate lecture on bacterial cell physiology and motility for BIOL 250

LABORATORY SKILLS

- Cell culturing and passaging
- DNA isolation and amplification
- Viral propagation, titering, and calculation of viral fitness
- Genomic analysis, BLAST nucleotide/protein comparison, and SNP analysis
- Data visualization using R studio
- Academic writing and grant writing

WORK EXPERIENCE

Weddings and Events Manager

Rose & Blossom

Mar 2003 - Nov 2021

Spokane Valley, WA

- Crafted complex event and wedding proposals utilizing personal creativity and client input
- Managed a diverse team performing multiple duties including floral designers, delivery drivers, and event-setup staff
- Organized, catalogued, and maintained event details using the Curate data management system ensuring each event was staffed accordingly without scheduling conflicts
- Corresponded with clientele regarding adjustments to original proposals
- Coordinated with suppliers to ensure proper shipping and receiving of special order only products
- Networked representing Rose & Blossom at various trade-shows and vendor-sponsored events

LEADERSHIP AND OUTREACH

Chair of Programming

University of Idaho Graduate and Professional Student Association (GPSA)

2024 - Present

Moscow, ID

- Organized bi-monthly breakfast events for graduate students promoting social interaction and networking
- Expanded programming for graduate students on the Moscow campus

Creator/Coordinator

Science on Tap

2024 - Present

Moscow, ID

- Facilitated monthly science-themed pub talks designed for a general audience.
- Increased community engagement to make scientific research more accessible to the public.

Chair of Communications

Randall Women in Science Inclusion, Diversity, and Equality Alliance (IDEA), University of Idaho

2023 - 2024

Moscow, ID

- Organized a faculty panel event aimed at addressing inequalities faced by women working in STEM fields
- Disseminated communications about RWiS activities to the general population

VOLUNTEER EXPERIENCE

Front Desk Attendant

Multicare Valley Hospital

2017

Spokane Valley, WA

- Assisted visitors with the location of patient rooms
- Supported staff by moving discharged patients to the patient loading zone
- Presented 'Welcome Baby Spoons' to maternity patients

MEMBERSHIPS

Member

2024 - Present Society for the Study of Evolution