

CURRICULUM VITAE

NAME: KATHERINE IRENE YOUNG

Date: October 23, 2014

POSITION AND ADDRESS:

Graduate Student (M.S.)
New Mexico State University
Department of Biology
Foster Hall
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BIOGRAPHICAL:

Citizenship: USA
Address: 231 Hanks Dr., Las Cruces, NM 88005

EDUCATION:

2008 B.S., Biology
 Longwood University
 Farmville, VA
 GPA: 3.009

2015 M.S., Biology
(Anticipated) Minor, Applied Statistics
 New Mexico State University
 Las Cruces, NM
 Thesis title: Impact of landscape change on the abundance and distribution of sylvatic
 dengue vectors in Sarawak, Malaysia
 Advisor: Dr. Kathryn Hanley
 GPA: 3.962

PROFESSIONAL AND RESEARCH EXPERIENCE:

2012 – Present Graduate Research Assistant
 Department of Biology
 New Mexico State University
 Las Cruces, NM

- Member of Dr. K.A. Hanley laboratory.
- Ecology of sylvatic dengue vectors in Malaysian Borneo.
- Morphological and molecular identification of mosquito species from Malaysian Borneo.
- Mosquito infectivity and intra-host viral competitive ability of Sri Lankan dengue virus strains.
- Investigating the role of extrinsic incubation period in the lineage replacement of Sri Lankan dengue virus strains using *Ae. aegypti*

- Assessing the role of the viral untranslated regions in flavivirus vector specificity.

2012 – present

Teaching Assistant
Department of Biology
New Mexico State University
Las Cruces, NM

- Instructed undergraduate students in the microbiology laboratory course requirement for the fall 2012 and spring 2013 semesters.
- Prepared lectures and quizzes four times weekly for two laboratory sections and trained students in proper laboratory techniques and experimental procedures.
- Graded all student reports and provided outside of classroom support to any needing assistance.

2011 – 2012

Research Associate
Sapphire Energy Inc.
Las Cruces, NM

- Supported efforts in the identification of algae strains to be used as alternative fuel sources.
- Implemented algae culture nutrient data collation and analysis utilizing colormetric assays for ion detection.
- Performed QPCR on algae culture samples to identify and quantify infectious agents to meet the research needs of Sapphire Energy Inc.

2009 – 2011

Peace Corps Volunteer
United States Peace Corps
Kenya

- Lived and worked in rural Kenya, adapting/learning how to identify/meet the development needs as well as the aspirations of the Kasigau community.
- Designed and implemented grass roots public health projects to assist orphaned children and people living with HIV/AIDS.
- Coordinated several large group events with over 200 people in attendance relating to public health in Eastern Africa.
- Supported fellow volunteers by serving on the Volunteer Advisory Committee.

2008 – 2009

Laboratory Technician
Sentara Norfolk General Hospital
Norfolk, VA

- Assisted pathologists with preparation of histology specimens using a cryostat.
- Catalogued all tissue specimens and prepared samples for shipment to and from sister laboratories.

AWARDS AND HONORS:

- 2013 EcoHealthNet Alliance Workshop (Minneapolis, MN). *EcoHealth approaches to Prevention and Control of Zoonotic Disease* (competitive application).
- 2013 Stuart Pimm Graduate Student Award for Field Work in Ecology, New Mexico State University, NM.
- 2015 Fulbright Student Research Fellowship. *Application Submitted*

PUBLICATIONS:

1. Tumban, E., N. Maes, **K.I. Young**, E.E. Schirtzinger, C.T. Hanson, S.S. Whitehead, and K.A. Hanley. 2013. Replacement of conserved or variable sequences of the mosquito-borne dengue virus 3' untranslated region with homologous sequences from directly-transmitted Modoc virus: no impact on infectivity for mosquitoes. *Journal of General Virology* 94:783-788.