

Katherine D. Sheline

5521 Joshua St #5
Lansing, MI 48911
(810) 516-0181
shelinek@michigan.gov

EDUCATION

- 8/04-5/06 **University of Michigan School of Public Health** **Ann Arbor, MI**
Master of Public Health in Hospital and Molecular Epidemiology
GPA: 8.466/9.000
- 8/00-5/04 **Michigan State University** **East Lansing, MI**
Bachelor of Science in Honors Microbiology
Specialization in Medical Microbiology
Study Abroad program: Medical Ethics and History of Health Care in London, 2003.
GPA: 3.996/4.000

EXPERIENCE

- 8/06-Present **Michigan Department of Community Health** **Lansing, MI**
Division of Communicable Disease
CDC/CSTE Applied Epidemiology Fellow
 - Evaluate Michigan's Emergency Department Admissions Syndromic Surveillance System (EDSurv) according to CDC guidelines.
 - Investigate clusters of foodborne illness, including multistate outbreaks identified through the PulseNet molecular subtyping network.
 - Train for deployment as a member of a surge capacity team assisting in surveillance activities at the CDC quarantine station in Detroit.
 - Design and conduct an epidemiologic study of the risk factors for extraintestinal non-typhoidal *Salmonella* infection and patient outcomes.
- 1/05-7/06 **University of Michigan School of Public Health** **Ann Arbor, MI**
Research Assistant
 - Planned and executed epidemiologic research investigating the disease role of a selected genetic polymorphism in *Mycobacterium tuberculosis*.
 - Optimized molecular tools for analysis, including polymerase chain reaction (PCR) and dot blot hybridization.
 - Analyzed a population-based sample set of more than 650 DNA isolates.
 - Performed statistical data analysis and presented conclusions orally and in a manuscript for publication in a scientific journal.
- 5/01-8/01,
5/02-8/02,
5/03-6/03,
5/04-8/04 **Advanced Outdoor Spraying Incorporated** **Fenton, MI**
Office/Technical Assistant
 - Collected and analyzed tri-weekly insect samples to monitor mosquito population size and composition.
 - Operated CDC dry ice traps to collect mosquitoes as part of voluntary involvement by the company in West Nile Virus emergence surveillance efforts.
 - Corresponded with clients and provided information to members of the community daily.
 - Managed data collected with GPS technology and extracted needed information.
 - Identified and assessed mosquito breeding habitats.
 - Created and maintained numerous databases with Microsoft Excel.
 - Completed training and achieved certification as a licensed pesticide applicator.

- 1/04-5/04 **Michigan State University** **East Lansing, MI**
Department of Microbiology and Molecular Genetics
Departmental Aide
- Provided instructive assistance for an introductory microbiology laboratory course, to two classes of 40 students each.
 - Explained course information, providing additional clarification to several students.
 - Demonstrated proper laboratory techniques.
 - Developed and implemented grading rubrics assessing student progress.
- 9/00-4/03 **Michigan State University** **East Lansing, MI**
The Diagnostic Center for Population and Animal Health
Parasitology and Immunodiagnostics Sections
Professorial/Laboratory Assistant
- Evaluated the performance of a newly available clinical diagnostic test for implementation by the Center and designed a poster to present findings.
 - Collected data and analyzed samples for two published research projects.
 - Assessed clinical samples with immunofluorescent assay (IFA), western blot, microscopy, and other techniques.
 - Distributed materials during annual Heartworm Awareness Day activities.

PUBLICATIONS AND FORMAL PRESENTATIONS

Rossano MG, Kaneene JB, Schott HC, **Sheline KD**, Mansfield LS. "Assessing the agreement of Western blot test results for paired serum and cerebrospinal fluid samples from horses tested for antibodies to *Sarcocystis neurona*." *Vet Parasitol* 2003;115:233-238.

Sheline KD, Vrable RA, Bolin SR, Mansfield LS, Murphy AJ, Grosjean NL. "Evaluation of Indirect Fluorescent Antibody Assay and Competitive Inhibition Enzyme-Linked Immunosorbent Assay for Diagnosis of *Neospora caninum*." (Poster Presentation, University Undergraduate Research and Arts Forum, 2003)

Rossano MG, Murphy AJ, Vrable RA, Vanzo NE, Lewis SK, **Sheline KD**, Kaneene JB, Mansfield LS. "Cross-sectional study of serum antibodies against *Sarcocystis neurona* in cats tested for antibodies against *Toxoplasma gondii*." *J Am Vet Med Assoc* 2002;221:511-514.

HONORS AND AWARDS

- 2006 Hunein F. Maassab Award for Excellence in Molecular Epidemiology
2004 University of Michigan School of Public Health Tuition Assistance Scholarship
2004 Michigan State University Department of Microbiology Sayer Award
2004 Michigan State University Board of Trustees Award
2003 DuVall Scholarship in Microbiology
2003 Michigan State University Office of Study Abroad Scholarship
2003 Michigan State University College of Natural Science Study Abroad Scholarship
2003 Michigan State University Honors College Study Abroad Scholarship
2002 Inducted into Golden Key International Honour Society
2001 Inducted into National Society of Collegiate Scholars
2000 Robert C. Byrd Scholarship
2000 National Merit Scholar Award
2000 Michigan State University Spartan Scholarship and Honors College STATE Scholarship

ACTIVITIES

- 2005-Present Completed formal training as a member of the Public Health Action Support Team (PHAST); selected for participation in an outreach to the Gulf Coast in February 2006.
- 2003-4 Volunteered at the Sparrow Hospital Emergency Room, East Lansing MI.