

**Katherine A. Ruegg**  
**Professional Research Assistant**

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**EDUCATION**

**Master of Science – Biology/Microbiology, 2009**

Central Michigan University, Mount Pleasant, Michigan

Thesis: Identification of *Burkholderia* species in polycyclic aromatic hydrocarbon contaminated soils

**Bachelor of Science – Biology/Chemistry, 2005**

Lake Superior State University, Sault Ste. Marie, Michigan

**RELEVANT EXPERIENCE**

**Professional Research Assistant, University of Colorado Denver, Anschutz Medical Center**

*Laboratory research for the Hemophilia and Thrombosis Clinic, February 2010 – Present*

- Responsible for clotting assays on whole blood and platelet poor plasma, including but not limited to PTs, aPTTs, factor assays, thrombin time, fibrinogen testing, ELISAs, TEG, Chromogenic assays, Calibrated Automated Thrombogram, etc
- Process whole blood for platelet poor plasma
- Work with multiple physicians on number of projects involving pediatrics and neonates
- Completed the Professional Research Assistant Phlebotomy and EKG training
- Present results at weekly laboratory meetings
- Work daily with Clinical Research Coordinators

**Biological Science Technician, National Park Service, Page, Arizona**

*Molecular Laboratory Lead at Glen Canyon National Recreation Area, October 2009 – January 2010*

- Proposed and budgeted for the implementation of the molecular laboratory
- Supervised the molecular laboratory's daily operations including standard operating procedures, quality control measures, supplies and equipment
- Developed PCR procedures for the early detection of zebra and quagga mussel veligers in Lake Powell
- Responsible for training technicians in the molecular laboratory

**Biological Science Technician, National Park Service, Bullfrog, Utah**

*Water Quality Monitoring on Lake Powell, August 2009 – October 2009*

- Responsible for the collection of water samples around Lake Powell
- Analyzed samples using the Colilert method for *E. coli* detection
- Followed quality control measures and SOPs to ensure accurate and replicable results
- Maintained *Escherichia coli*, *Pseudomonas aeruginosa*, and *Klebsiella pneumoniae* control stock cultures
- Laboratory supervisor of the Bullfrog Water Quality Laboratory

**Microbial Ecology Laboratory, Central Michigan University**

*Graduate Research and Teaching Assistant, July 2006 – May 2009*

- Analyzed 100+ PAH contaminated soils for presence of opportunistic pathogens using molecular and cultivation techniques
- Constructed 20+ clone libraries for sequence and phylogenetic analysis
- Documented all procedures in laboratory notebooks and electronic databases
- Presented results at the American Society for Microbiology National Meetings (2008 and 2009)
- Assisted with collection of environmental samples (water and fecal) for influenza surveillance project
- Trained and supervised 2 lab assistants
- Instructed 12 sections of microbiology lab courses

**Organic Chemistry Preparation Laboratory, Lake Superior State University**

*Undergraduate Student Assistant, August 2003 – April 2004*

- Prepared solutions and equipment for organic chemistry lab

**ADDITIONAL LAB and COMPUTER SKILLS**

- PCR and real-time PCR
- Aseptic techniques and media preparation
- Quality control
- DNA/RNA extraction and quantification
- Sequencher, BLAST, GenBank, ClustalX, Treeview software
- Tissue culture (CHO, T-cell)
- DGGE electrophoresis
- DNA sequencing
- Primer design
- Gene knock-out (RNAi)
- Experience with *C. elegans* and *Drosophila* species
- Minitab Statistical Software

**REFERENCES** – provided upon request