

## Curriculum Vitae

**Jason A. Coombs**  
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### Education:

- 2002                    **Clarion University of Pennsylvania**, Clarion, PA  
**M.S.** in Biology  
(Emphasis: Aquatic Ecology and Population Dynamics)  
Thesis: "Population structure of brook trout living in adjacent headwater tributaries as revealed by mtDNA analysis"
- 1998                    **Lock Haven University of Pennsylvania**, Lock Haven, PA  
**B.S.** in Biology  
Major: Cellular and Organismal Biology, Minor: Chemistry

### Employment:

- 2007                    **Biological Sciences Laboratory Technician**, U.S. Forest Service, Amherst, MA
- 2002-2007            **Research Assistant**, University of Massachusetts, Amherst, MA
- 2000-2002            **Teaching Assistant**, Clarion University, Clarion, PA,

### Related Employment:

- 1998-2000            **Laboratory Technician**, Croda Inc., Mill Hall, PA  
Responsible for quality control of all raw and manufactured chemical products utilizing instrumental analysis and wet chemistry techniques
- 1998                    **Laboratory Technician**, Borden's, Wellsboro, PA  
Conducted microbiology testing and assured quality control specifications for food production

### Teaching Experience:

- 2005                    **Instructor**, Developed and instructed a graduate level course entitled 'Data Management and Manipulation' which taught Excel, Access and Visual Basic
- 2000-2002            **Teaching Assistant**, Clarion University, Clarion, PA, Instructed laboratories for Genetics, Cellular Biology, and General Biology

## **Software Development:**

- CREATE** Creates and converts input files for an array of genetic analysis software programs
- SpawnOpt** Designed for the U.S. Fish and Wildlife Service for real-time optimization of Atlantic salmon matings for the purpose of minimizing genetic relatedness

## **Submitted Publications:**

Coombs, J.A., Letcher, B.H., and Nislow, K.H. "CREATE: Software to create and convert input files from diploid genotypic data for an array of genetic software packages". Submitted to Molecular Ecology Notes.

Letcher, B.H., Nislow, K.H., and Coombs, J.A. "Extinction risk due to habitat fragmentation in a brook trout population". Submitted to Plos Biology.

## **Presentations:**

- 2006 "The influence of environmental and behavioral processes on lotic brook trout population structure"  
American Fisheries Society  
Lake Placid, NY September 10-14
- 2005 "Movement biases in both sex and size for Brook Trout during the spawning season"  
Ecological Society of America  
Montreal, Quebec August 8-12
- 2003 "Using individual based research to evaluate the consequences of movement"  
American Fisheries Society  
Quebec City, Quebec August 11 - 15
- 2002 "Population structure of brook trout living in adjacent headwater tributaries as revealed by mtDNA analysis"  
North American Benthological society  
Pittsburgh, PA May 28 – June 1