

# CURRICULUM VITAE

## Jessie Marie Jacques

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### Current Interests

Population/Landscape Genetics, Behavior, Host-parasite interactions, Field Ecology

### Education

**Purdue University**, West Lafayette, IN July 2008 – Present  
Graduate Research Assistant, MS student

**Augustana College**, Rock Island, IL May 2007  
Bachelor of Arts in Biology and Psychology, *Cum laude*

### Research Experience

**PULSe Interdisciplinary Life Science PhD Program** Aug. 2007-June 2008

*Graduate Research Assistant*

Purdue University (Department of Biochemistry), West Lafayette, IN.

Laboratory Rotations

- Genotyping of *D. spectabilis* (DeWoody Laboratory)
- Lineage methods for the avian middle ear, including retrovirus-mediated gene transfer to mark progenitor cells within the otic vesicle and alkaline phosphatase to subsequently track the progeny (Fekete Laboratory)
- Microsatellite Library development for *C. pardalis*, *proboscideus*, and *sulcatulus* (Rhodes Laboratory)
- Gene expression of *Oncorhynchus mykiss* via quantitative PCR (Nichols Laboratory)
- Isolation of murine prostate stem cells via FACS (Ratliff Laboratory)

**FRONTIERS IN BIOLOGICAL RESEARCH (FIBR)**

June 2006 – Aug. 2006

*Undergraduate Research through the National Science Foundation*

Indiana University (Department of Biology), Bloomington, IN.

Andrews Laboratory, Dr. Brian Eads (mentor).

- *Causes and Consequences of Recombination*. Whole-mount *In Situ* Hybridization to RNA in *Daphnia pulex*: Characterizing oogenesis through gene expression.

**FRONTIERS IN BIOLOGICAL RESEARCH (FIBR)**

June 2005 – Aug. 2005

*Undergraduate Research through the National Science Foundation*

The University of Illinois (Department of Biology), Champaign-Urbana, IL. Cáceres

Laboratory, Dr. Cindy Hartway (mentor).

- *Causes and Consequences of Recombination*. Sex Allocation in *Daphnia pulicaria*: A trade-off between competition and inbreeding.

## Teaching Experience

**CHILDREN'S CENTER FOR AUTISM**, Cary, IL May 2007 – August 2007

*Life Skills Coach*

- Provided in-home support, including behavior management
- Implemented teaching techniques in the following areas: academics, speech and communication, play and music, social skills, community integration, recreation and art
- Administered medicine

**PSYCHOLOGY DEPARTMENT**, Augustana College, IL Sept. 2005 – May 2007

*Psychology Assistant*

- Tutored for Introductory Psychology and Life Span Development
- Provided review sessions, graded exams
- Secretarial work (answering phones, copying, running errands, etc)

**EDUCATION DEPARTMENT**, Augustana College, IL Sept. 2006 – Nov. 2006

*Student worker*

- Secretarial work
- Videotaped lessons for Secondary and Middle School Methods

**CHEMISTRY DEPARTMENT**, Augustana College, IL Sept. 2004 – Nov. 2004

*Laboratory Proctor*

- Tutored students inside and outside the lab and assisted with lab reports
- Set-up and maintained laboratory

## Presentations

Forestry and Natural Resources Research Symposium, Purdue University, “Weevil Microsatellite Marker Development...in a Nutshell.” West Lafayette, Indiana, 2005, *Poster Presentation*

Undergraduate Science Honors Capstone. Celebration of Learning, Augustana College, IL. *The spirit to heal: Shamanic and biomedical perspectives on the “sacred disease”, epilepsy.* 2006-2007, *Poster Presentation*

Undergraduate Psychology Seminar Project. Augustana College, IL. *Cross Modal Change Detection in Music.* 2006-2007, *Oral Presentation*

Frontiers in Biological Research: Causes and Consequences of Recombination. Indiana University Symposium, IN. *Whole-mount In Situ Hybridization to RNA in Daphnia pulex: Characterizing oogenesis through gene expression.* August 2006, *Oral Presentation*

Frontiers in Biological Research: Causes and Consequences of Recombination. Indiana University Symposium, IN. *Sex Allocation in Daphnia pulicaria: A trade-off between competition and inbreeding.* Aug. 2005, *Oral Presentation*

## **Volunteer Work**

- Robert Young Mental Health Center, Recreational therapy for substance abuse and crisis intervention/prevention
- Special Olympics Volunteer, Headed opening ceremonies
- Service in St. Louis and Chicago

## **Memberships**

- Mortar Board National College Senior Honor Society
- Psi Chi National Honor Society in Psychology
- Sigma Xi Scientific Research Society
- Logos Science Honors Program at Augustana College

## **Awards**

- Excellence Graduate Scholarship, Purdue University Life Science Graduate Program
- PULSe Assistantship, 2007
- Augustana College Academic Deans list- all semesters
- Augustana College Presidential Scholarship