

## **Richard A. Blatchford**

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### **ACADEMIC PREPARATION**

**PhD in Animal Behavior**, Department of Animal Science, University of California, Davis, 2011  
Concentration: Poultry Behavior, Welfare, and Management  
Advisor: Professor Joy Mench

**M.S. in Avian Science**, Department of Animal Science, University of California, Davis, 2006  
Concentration: Animal Welfare, Behavior

**B.A. in Psychobiology**, Hiram College, Hiram, OH, 2001  
Concentration: Animal Behavior & Husbandry

### **TEACHING EXPERIENCE**

**Key Skills:** Proficient at course/lab material preparations including synthesis and delivery of lectures. Extensive experience in communicating information and mentoring undergraduates, both in and out of the classroom. Demonstrated ability to evaluate students' work in the form of writing assignments as well as exams and participatory working knowledge.

**Guest Lecturer** in Avian Management  
Topic: Captive Crane Biology, Behavior, and Conservation

**Guest Lecturer** in Introduction to Poultry Science  
Topic: Poultry Behavior and Welfare

**Guest Lecturer** in Animal Welfare  
Topic: Broiler Management and Welfare

**Guest Lecturer** in Ethics of Animal Use  
Topic: Poultry Welfare Issues

**Teaching Assistant**, Department of Animal Science, University of California, Davis, 2003 - 2009  
Courses: Principles of Domestic Animal Behavior, Domestic Animal Behavior Lab, Animal Welfare, Ethics of Animal Use, Introduction to Companion Animal Biology, and Birds, Humans, and the Environment  
Duties: Prepare course materials, assist students, run discussions, and evaluate student work

**Environmental Outreach Instructor**, J.H. Barrow Field Station, Hiram College, Hiram, OH 1997-2001  
Developed educational and instructional materials for environmental education programs (e.g. Plant and Animal Adaptations, Land Ethics, Stream Invertebrates, etc.) geared toward grades K-12.

## **PRESENTATIONS**

- Blatchford, R.A., Archer, G.S., & Mench, J.A. "The effect of lighting regime on broiler behavior and health." Poultry Science Annual Meeting, Denver, CO, July 2010.
- Blatchford, R.A., Archer, G.S., & Mench, J.A. "The effect of lighting regime on broiler behavior and health." International Society of Applied Ethology, North American Regional Meeting, Washington State University, Pullman, WA, May 2010.
- Blatchford, R.A., Archer, G.S., & Mench, J.A. "The effect of lighting regime on broiler health and behavior." Pacific Egg and Poultry Association Annual Meeting, Napa, California 2010.
- Blatchford, R., Mench, J.A., Wakenell, P., & Archer, G.S. "The effect of light intensity on broiler behavior and welfare." Pacific Egg and Poultry Association Annual Meeting, Palm Springs, California 2008.
- Blatchford, R., Mench, J.A., Wakenell, P., & Archer, G.S. "The effect of light intensity on broiler behavior and welfare." Poultry Science Annual Meeting, San Antonio, Texas, July 2007.
- Blatchford, R., Mench, J.A. & Wakenell, P. "The effect of photoperiod on broiler behavior and welfare." The International Society of Applied Ethology, North American Regional Meeting, University of British Columbia, Vancouver, Canada, July 2006.
- Blatchford, R., Mench, J.A. & Wakenell, P. "The effect of photoperiod on broiler behavior and welfare." The International Society of Applied Ethology, Azabu University, Sagamihara, Japan, August 2005.
- Blatchford, R.A. & Phillips, K.A. "The effects of 17 $\beta$ -estradiol on male guppy (*Poecilia reticulata*) sexual behavior." The Ohio Academy of Sciences Annual Meeting, Alliance, Ohio, 31 March 2001.
- Marshall, S.D. & R. Blatchford. "A Comparative Study of the Defense Behaviors of Theraphosid Spiders (Araneae: Theraphosidae)." Annual Meeting of the American Arachnological Society, Transylvania University, Lexington, Kentucky, July 2000.

## **INVITED TALKS**

- Poultry Housing and Welfare, Fresno State University, 2011
- Commercial Poultry Behavior and Welfare, Fresno State University, 2011
- Using Behavior in Your Backyard Flock, Avian Sciences Day, Thousand Oaks, CA 2010
- Broiler Behavior and Backyard Management, Avian Sciences Day, UC Davis, 2004

## **RESEARCH INTERESTS**

My interests lie in using behavior as a method for determining the welfare of captive avian species. Specifically, I am interested in determining ways to manipulate the environment to improve the behavioral response of a bird to that environment. My research examines the effects of photoperiod and illumination level on the behavioral rhythms, such as activity and feeding, of broiler chickens. I also look at how lighting affects weight gain, feed consumption, gait abnormalities (lameness), skeletal disorders, immunity, and eye growth.

## **PUBLICATIONS**

- Blatchford, R.A., S. Walker, and S. Marshall. 2011. A phylogeny-based comparison of tarantula spider anti-predator behavior reveals correlation of morphology and behavior. *Ethology*, 117, 473-479.
- Blatchford, R.A., K.C. Klasing, H.L. Shivaprasad, P.S. Wakenell, G.S. Archer, & J.A. Mench. 2009. The effect of light intensity on the behavior, eye and leg health, and immune function of broiler chickens. *Poultry Science*, 88, 20-28.
- Alvino, G.M., R.A. Blatchford, G.S. Archer, & J.A. Mench. 2009. Light intensity during rearing affects the behavioural synchrony and resting patterns of broiler chickens. *British Poultry Science*, 50, 275-283.

## **AWARDS**

- Pacific Egg and Poultry Association Outstanding Poster Award, 2008
- Pacific Egg and Poultry Association Merit Award, 2007

## **SERVICE AND OUTREACH**

- Graduate Student Welfare Committee, Department of Animal Science, 2006-2007
- Avian Sciences Picnic Day Display Committee, Department of Animal Science, 2004-present
- Picnic Day Avian Science Display Interpreter
- State Fair Hatchery Exhibit Interpreter

## **ASSOCIATION MEMBERSHIPS**

- International Society of Applied Ethology
- Poultry Science Association
- World's Poultry Science Association

## **PEER REVIEWER**

- Poultry Science
- Ethology