

**Rebecca S. Hartley**  
Associate Professor  
Biology Department  
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### **Education**

Ph.D. in Biology with Zoology major, Physiology minor. Indiana University, Bloomington, Indiana, 1989.

B.S. in Biology, Magna Cum Laude. University of Washington, Seattle, Washington, 1984.

Epidemiology, 12 cr. (EPI 512, 513, 600) taken as non-matriculated graduate student, University of Washington, Seattle, Washington, 1998-99. Also sat in on EPI 510, 514, 521, BIOS 512, 513.

### **Professional Experience**

Associate Professor, Biology Department, Seattle University, Seattle, Washington, 1996-Present. Courses taught: Taking Flight: Avian Biology (UCOR 1800), Principles of Biology (BIOL 101), General Biology 3 (BIOL 167 or 163/173 or 1630/1631), Comparative Vertebrate Embryology (BIOL 310), Comparative Anatomy of the Vertebrates (BIOL 325 or 3250), Animal Physiology (BIOL 388 or 3880), Senior Synthesis (BIOL 491).

Assistant Professor, Biology Department, Seattle University, Seattle, Washington, 1990-96.

Postdoctoral Research Fellow, Physiology Section, Medical Sciences Program, Indiana University, Bloomington, Indiana, 1989-90.

### **Peer-Reviewed Journal Publications** (\* indicates SU undergraduate researcher)

Hartley, R.S. and J. Hitti (2016) Please exit safely: maternal and twin pair neonatal outcomes according to delivery mode when twin A is vertex. *J Matern Fetal Neonatal Med.* Mar 29:1-6.

Hartley, R.S. and J. Hitti (2010) Increasing rates of preterm twin births coincide with improving twin pair survival. *J Perinat Med.* 38:297-303.

Hartley, R.S. and J. Hitti (2008) Increasing rates of sex-discordant twins no longer correspond to decreasing perinatal mortality rates. *J Perinat Med.* 36:228-234.

Hartley, R.S. and J. Hitti (2005) Birth order and delivery interval: analysis of twin pair perinatal outcomes. *J Mat Fetal Neonat Med.* 17:375-380.

Hartley, R.S., J. Hitti, and I. Emanuel (2002) Size-discordant twin pairs have higher perinatal mortality rates than nondiscordant pairs. *Am J Obstet Gynecol* 187:1173-1178.

Hartley, R.S., I. Emanuel, and J. Hitti (2001) Perinatal mortality and neonatal morbidity rates among twin pairs at different gestational ages: Optimal delivery timing at 37 to 38 weeks' gestation. *Am J Obstet Gynecol* 184:451-458.

Hartley, R.S., M.S. Chinn,\* and N.F.E. Ullrich\* (1997) Left syringeal dominance in testosterone-treated female canaries. *Neurobiol Learning Mem* 67:248-253.

Suthers, R.A., F. Goller, and R.S. Hartley (1996) Motor stereotypy and diversity in songs of mimic thrushes. *J Neurobiol* 30:231-245.

Suthers, R.A., F. Goller, and R.S. Hartley (1994) Motor dynamics of song production in mimic thrushes. *J Neurobiol* 25:917-936

Hartley, R.S. (1990) Expiratory muscle activity during song production in the canary. *Respir Physiol* 81:177-188.

Hartley, R.S. and R.A. Suthers. (1990) Lateralization of syringeal function during song production in the canary. *J Neurobiol* 21:1236-1248.

Hartley, R.S. and R.A. Suthers (1989) Airflow and pressure during canary song: direct evidence for mini-breaths. *J Comp Physiol A* 165:15-26.

#### **Manuscript in Preparation/Submission**

Wacker, D.W., C. Wotus, T.R. Ferguson, A.J. Greer, B.L. Geller, and R.S. Hartley (2018) Song sparrows show season-dependent differences in territorial aggression and vigilance responses on territories under communal crow roosts.

#### **Presentations at National Research Meetings (Poster or Talk Abstracts)**

Hartley, R.S. and J. Hitti (2010) Elevated risks of maternal and neonatal injuries with vaginal operative deliveries of twins. *23rd Annual SPER Meeting Program* (Society for Pediatric and Perinatal Epidemiologic Research; Seattle, WA)

Hartley, R.S. and J. Hitti (2008) Increasing rates of preterm births among twin pairs in Washington State, 1980-2005. *21st Annual SPER Meeting Program* (Society for Pediatric and Perinatal Epidemiologic Research; Chicago, IL)

Hartley, R. and J. Hitti (2006) Increasing rates of boy-girl twins over a 14-year period in Washington State. *19th Annual SPER Meeting Program* (Society for Pediatric and Perinatal Epidemiologic Research; Seattle, WA)

Hartley, R. and J. Hitti (2004) Second-born twins have more fetal distress and low Apgars than their co-twins. *Am J Obstet Gynecol* 189:S121. (Society for Maternal-Fetal Medicine; New Orleans, LA)

Hartley R., J. Hitti, and I. Emanuel (2002) Discordant twin pairs: How do they fare vs. non-discordant pairs? Does smaller vs. larger matter? *Am J Obstet Gynecol* 185:S119. (Society for Maternal-Fetal Medicine; New Orleans, LA)

Hartley R.S., M.S. Chinn, and N.F.E. Ullrich (1995) Lateralization of syringeal function in testosterone-treated female canaries. *Society for Neuroscience Abstracts* 21:961. (San Diego, CA)

Suthers, R.A. and R.S. Hartley (1989) Differential airflow through the right and left sides of the avian syrinx during song. *Abstracts from Midwinter Research Meeting*, p. 308 (Association for Research in Otolaryngology; St. Petersburg, FL)

Schurr, R.L. and R.A. Suthers (1987) Respiratory patterns during song production in the canary. *The Physiologist* 30:221. (American Physiological Society; San Diego, CA)

### **Lab Manuals Written for S.U. Courses**

UCOR 1800 Taking Flight: Avian Biology

BIOL 101 Principles of Biology Lab Manual

BIOL 310 Vertebrate Embryology Lab Manual

BIOL 3880 Animal Physiology Lab Manual

### **SU Committees and Service (2012-Present)**

Hosted alum career panel: Lemuel Navarro, Alicia (Ward) Higgs, David Scarsella (Spring 2018)

Hosted alum career panel: Hillary Lauren, Ginelle (Brown) Moriarty, and Karen White (Spring 2017)

Hosted guest speaker Dr. Bob Kao (Fall 2015)

Academic Advisor to 15-20 Biology majors (1991-Present)

Sullivan Leadership Award Selection Committee Co-Chair (2009-2017)

3-Year and Tenure Reviews of Biology faculty (multiple)

Search Committees for Biology faculty positions (2012, 2013)

LinkedIn group for Biology alumni (2014-present)

New Student Convocation Discussion Leader (2011-2014)

PreHealth Interview Committee (1991-2013)

"The Immortal Life of Henrietta Lacks" book events (2012):

-- co-facilitated faculty/staff discussion and S&E student discussion

-- helped plan programs for speaker Sonny Lacks's visit

"Have a Heart" workshop for middle school girls, SU Expanding Your Horizons conference (March 2009, 2011-2016)

### **Fellowships and Awards**

Summer Faculty Fellowship, Seattle University, 2009

Science & Engineering Summer Faculty Award, Seattle University, 2006

Summer Faculty Fellowship, Seattle University, 2003

Science & Engineering Faculty Innovation Award, Spring 2003 (Release Time)

Science & Engineering Faculty Innovation Award, Spring 2002 (Release Time)

Science & Engineering Faculty Innovation Award, Summer 2001 (Stipend)  
Summer Faculty Fellowship, Seattle University, 1994  
Summer Science Research Program, Murdock Charitable Trust, 1992 and 1993

**Professional Development (multi-day workshops attended)**

Bird Banding Training offered by Puget Sound Bird Observatory, Summer 2016  
Sound Recording Workshop, offered by Cornell Lab of Ornithology, Summer 2015  
Catholic Social Teaching Faculty Workshop, Summer 2011

**Membership in Professional Societies**

American Physiological Society  
American Institute of Biological Sciences  
Society for Integrative and Comparative Biology

**Contributions to Macaulay Natural Sounds Library at Cornell Lab of Ornithology**

71 quality recordings of songs and calls from variety of bird species (submitted 2017-18)  
-- 2015 recordings from Plumas and Sierra counties, CA  
-- 2015-2018 recordings from King and Island counties, WA

**Community Service**

Puget Sound Bird Observatory, Secretive Wetland Bird Project (Spring 2017, Spring 2018)  
Eastside Audubon, Christmas Bird Count (December 2017, Dec. 2018)  
Hazen Highlander Band Boosters, Logistics Coordinator (2017-18)