

Rebecca S. Hartley
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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, BIOST 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.

Peer-Reviewed Conference Paper

Miguel, A., J.M. Slougher, J. Dorsey, F. Shih, R. Hartley, and J. Crevier (2020) What's Next? From Analysis to Action (American Society for Engineering Education CoNECD)

Manuscript Revised

Hartley, R.S., M. Bredehoeft,* and J. Erickson* (2020) Seasonal changes in group size and winter flower-foraging habits of Bushtits (*Psaltriparus minimus*) in Washington state.

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)

Student Presentations at Research Conferences

Delgado, K. and J. Ronald (2021) Historical Data Representing the Effects of Latitude on Clutch Size and Year on Start Date of Nesting of the Common Bushtit (*Psaltriparus minimus*) (SU Biology Dept. Research Conference; virtual event)

Clark, S. (2020) Year-to-Year Variation in Bushtit (*Psaltriparus minimus*) Nesting Sites and Success on SU Campus (SU STEM Showcase; virtual event)

Boudinot, K. (2019) Nesting Phenology & Cooperative Breeding of Bushtits (*Psaltriparus minimus*) in Washington State (Murdock College Science Research Conference; Vancouver, WA)

Perez, S. (2019) Placement and Composition of Bushtit (*Psaltriparus minimus*) Nests in an Urban Environment (Murdock College Science Research Conference; Vancouver, WA)

Dylla, C., H. Samsen, and R.S. Hartley (2019) Nesting site preferences of American bushtits (*Psaltriparus minimus*) in an urban campus setting. (Joint meeting of Society of Northwest Vertebrate Biologists, Washington Chapter of Wildlife Society, and Partners for Amphibian and Reptile Conservation; Grand Mound, WA)

Lab Manuals Written for S.U. Courses

UCOR 1800 Taking Flight: Avian Biology

BIOL 3880 Animal Physiology Lab Manual

SU Committees and Service (2015-Present)

Hosted alum career panel: Teresa Opolka, Jenna Bogen, Paulina Renteria (Spring 2019)

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 12-20 Biology majors (1991-Present)
Sullivan Leadership Award Selection Committee Co-Chair (2009-2017)
3-Year and Tenure Reviews of Biology faculty (multiple)
LinkedIn group for Biology alumni (2014-present)
New Student Convocation Discussion Leader (2011-2014, 2019)
"Have a Heart" workshop for middle school girls, SU Expanding Your Horizons conference (March 2009, 2011-2016)

Fellowships and Awards (2005-Present)

S&E Summer Research Stipend, Seattle University, 2019
Summer Faculty Fellowship, Seattle University, 2009
Science & Engineering Summer Faculty Award, Seattle University, 2006

Professional Development (multi-day workshops attended)

Waterfowl Identification offered through Eastside Audubon, Winter 2020
Bird Banding Training offered by Puget Sound Bird Observatory, Summer 2016
Sound Recording Workshop, offered by Cornell Lab of Ornithology, Summer 2015

Membership in Professional Societies

American Physiological Society
American Institute of Biological Sciences

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 (Springs 2017-2020)
Eastside Audubon, Christmas Bird Count (Decembers 2017-2018)