

JAMESON F. CHACE

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Salve Regina University
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ACADEMIC POSITIONS

September 2011 - present. Associate Professor of Biology, Department of Biology and Biomedical Science, Salve Regina University, Newport, RI 02840

Spring 2013 Visiting Scientist, University of Colorado, Department of Ecology and Evolutionary Biology, Boulder, CO 80309-0334

2013-2015 Rhode Island Campus Compact Faculty Fellow

2012-present Faculty Fellow, Pell Center for International Relations and Public Policy

2011-present Director of the Environmental Studies major, Salve Regina University
Director of the Hydroponic Research Lab, Salve Regina University

2005-present Coordinator, BS Biology Environmental Science concentration, Salve Regina University.

2005 – 2011 Assistant Professor of Biology, Department of Biology and Biomedical Science, Salve Regina University, Newport, RI 02840

2003 – 2005 Assistant Professor of Environmental Studies (non tenure track), Villanova University, Department of Biology, Villanova PA 19085; 2003-2005.

EDUCATION

Environmental Science Post-Doctoral Fellow, Villanova University, Department of Biology, Villanova PA 19085; 2001-2003.

Ph.D., University of Colorado-Boulder, Department of E.P.O. Biology, Boulder, CO. May 2001.
Dissertation: Host and Habitat Partitioning by Sympatric Brood Parasites in Southeastern Arizona.

Dissertation Advisor: Dr. Alexander Cruz
Certificate: Environmental Policy, 18 credit hours, completed May 2000.

M.A., University of Colorado-Boulder, Department of E.P.O. Biology, Boulder, CO. May 1995. Thesis:
The factors affecting the reproductive success of the Solitary Vireo (*Vireo solitarius plumbeus*) in Colorado.

Thesis Advisor: Dr. Ruth Bernstein

B.S., Eastern Connecticut State University, Department of Biology, Willimantic, CT. May 1989.

TEACHING INSTRUCTION

Assistant and Associate Professor, Salve Regina University

General Biology I/II and Laboratory (majors, full year course)
Humans and Their Environment (non-majors core complement)
Conservation Biology
Ecology

Evolution
 Tropical Biology: Belize
 Sustainable Development: Scandinavia
 Biology Senior Seminar
 Environmental Studies Thesis Seminar
 Environmental Justice (Undergraduate and Graduate level)

RESEARCH

SELECTED CONTRIBUTED PAPERS AT SCHOLARLY CONFERENCES (*undergraduate author)

- 2014 New England Estuarine Research Society, Annual Meeting, Avery Point, CT.
 Nicholson, H*, D. Borkman, and J.F. Chace. Marine species-specific habitat models used to predict future distributions with sea level rise along Newport Neck, RI.
- Jones, K. M.*, D. Borkman, and J. F. Chace. Highly skewed sex ratios among *Homarus americanus*, *Libinia emarginata*, and *Cancer irroratus* along Newport Neck, RI.
- Northeast Natural History Conference, Springfield MA
 Simpson, M. J*., and J. F. Chace. The Prevalence of Plasmodium in Migrant and Resident Birds.
- Sloman, S*, J. F. Chace, R. Simmons*, and R. Porter*. Impacts of the Urban Environment on Corticosterone Levels in Black-Capped Chickadee (*Poecile atricapillus*) and Tufted Titmice (*Baeolophus bicolor*).
- McDermott, K. L*., J. Kane*, and J. F. Chace. Northern Cardinal (*Cardinalis cardinalis*) stopover habitat use and evaluation of habitat quality in coastal Rhode Island.
- Joint meeting of the Association of Field Ornithologists and Wilson Ornithological Society, Newport, RI.
 Kane, J.*, K. L. McDermott*, and J. F. Chace. Evaluation of stopover habitat quality by comparing habitat use by residents and short-distance migrant sparrows in a coastal shrubland of Rhode Island.
- Cowell, D*., J. F. Chace, S. Meschwitz, and A. Igo* Evaluating the effect of a conservation easement as a fall migratory bird stopover site.
- Sloman, S*., J. F. Chace, R. Simmons* and R. Porter*. Impacts of the Urban Environment on Corticosterone Levels in Black-Capped Chickadee and Tufted Titmice.
- Simpson, M. J.* and J. F. Chace. Prevalence of Plasmodium in Nearctic-Neotropical Migrants compared with Tropical and Temperate Residents.
- American Geophysical Union, San Francisco, CA
 Gold, A., A. Schroth, S. Inamadr, et al. North East Water Resources Network (NEWNet): A real-time water quality sensor network to study impacts of climate variability for Delaware, Rhode Island and Vermont.
- 2013 New England Environmental Education Alliance Conference, Newport, RI.
 Chace, J.F., M. H. Kane, M. VanOrden*, Z. Moskwa*, and S. Staven*. Sustainable STEM education through hydroponics: a workshop.
- Animal Behavior Society annual meeting, Boulder, CO

Chace, J.F., A. Cruz, J. J. Walsh, and T. Tuff. Why are pewees rarely parasitized? Host-parasite interactions at an urban-wildland interface (poster presentation)

Wilson Ornithological Society Annual Meeting, Williamsburg, VA

Chace, J. F. K. Buffa, and G. M. Varuzzo. Factors affecting the distribution and abundance of wintering sea birds along Newport Neck, Rhode Island.

Igo, A*. and J. F. Chace. Value of urban riparian corridors as migratory stopover habitat (poster presentation).

Muehlbronner, A*. L., D. G. Chernisky, and J.F. Chace. Prevalence of malaria blood parasites in temperate, non-migratory birds across an urban gradient (poster presentation).

Porter, R*. R. Simmons, and J. F. Chace. Impacts of the urban environment on stress hormone corticosterone level in Black-capped Chickadee and Tufted Titmice (poster presentation).

Northeastern Association of Environmental Biologists, annual meeting, Lake Placid, NY

Diamantopoulos, J.* J. F. Chace, S. E. Matarese, C. N. Farragher*, W. Kelly*, and A. Igo*. Factors Influencing *Homarus americanus* Abundance and Distribution Along Newport Neck (poster presentation).

Dagliere*, B.A., J.F.Chace, and A. Shakarian. Determining *Escherichia coli* contamination in Aquidneck Island watershed from host organisms (poster presentation).

Farragher* C.N., A. Igo*, J. F. Chace. Nutrient Flux, Anoxic Conditions and *E. coli* Contamination Across an Urban Watershed: Analysis of a Three Year Study on Aquidneck Island (poster presentation).

2012 Association for Environmental Studies and Science, Annual Meeting, Santa Clara, CA.
Chace, J.F. A Watershed Opportunity for Student-led, Community-based Environmental Education.

Kane, M.H*. and J.F. Chace. Hydroponic Urban Agriculture and Sustainability Education.

2011 Wilson Ornithological Society, Cooper Ornithological Society and American Field Ornithologists' Annual Meeting, Kearney, NE.
Chace, J.F., T. D. LaPointe, R. M. Cliche, and L. Moffat. Breeding bird responses to American woodcock habitat management in northeastern Vermont.

2010 Association for Environmental Studies and Science, Annual Meeting, Portland, OR.
Chace, J.F and T. Neary. Tearing down silos at a small liberal arts university: an interdisciplinary curriculum proposal in environmental studies.

Northeast Association of Environmental Biologists annual meeting, Newport, RI.
Judge, E., L. Bailey, J.F. Chace and J. Ryan. Urban impacts in the watershed: citizen scientists monitor nutrients and fecal coliforms on Aquidneck Island, RI.

2009 Wilson Ornithological Society Annual Meeting, Pittsburg, PA

Chace, J.F., L.A. Moffat, T. D. LaPointe, and R. M. Cliche. Breeding bird responses to woodcock management in the Nulhegan Basin Division of the Silvio O. Conte National Fish and Wildlife Refuge.

2007

American Ornithologists' Union Annual Meeting, Laramie, WY

Chace, J.F. and S. D. Faccio. Canada Warbler age structure, site fidelity, territory characteristics, and pairing success in northeastern Vermont.

Julusson, L. M.*, A. Cruz, J. J. Walsh, J. F. Chace, H. M. Swanson, and J. W. Prather. Cowbird parasitism, nest predation, and nest success along an urban/wildland boundary, Boulder, Colorado.

Tuff, T., A. Cruz, J. J. Walsh and J. F. Chace. Differential parasitism frequencies in two suitable cowbird hosts in the Colorado Front Range.

Wilson Ornithological Society Annual Meeting, Boston, MA.

Chace, J.F. and S.D. Faccio. Canada Warbler territory characteristics and pairing success in northeastern Vermont.

2003

American Ornithologists' Union Annual Meeting, Urbana, IL.

Organized and Co-lead "Cowbird Ecology and Management" symposium

Chace, J. F. et al. Spatial and temporal activity patterns of the brood parasitic Brown-headed Cowbird and an urban/wildland interface.

Northeastern Ecology and Evolution Conference, Rutgers University.

Liu, Z*, A. Chacko*, J. F. Chace, and S. D. Faccio. Habitat selection of a declining warbler population: the Canada Warbler.

Chacko, A*, J. F. Chace, and S. D. Faccio. Response of the Canada Warbler to the 1998 ice storm in Vermont.

2002

North American Ornithological Conference, New Orleans, LA.

Character shift among sympatric brood parasites in Arizona: evidence of competition for hosts?

2001

American Ornithologists' Union Annual Meeting, Seattle, WA

Host selection by sympatric brood parasites in southeastern Arizona.

2000

Ecological Society of America Annual Meeting, Snowbird, Utah.

Habitat and host selection by sympatric brood parasites in southeastern Arizona.

Society for Conservation Biology Annual Meeting, Missoula, MT.

Patterns of brood parasitism and nest predation at an urban/wildland interface.

1997

Symposium on the Ecology and Management of Cowbirds in the West, Sacramento, CA. The influence of landscape and cowbird parasitism on the reproductive success of Plumbeous Vireos breeding in Colorado.

1997

Wilson Ornithological Society Annual Meeting, Manhattan, KS. Solitary Vireos nesting in a fragmented landscape: the effect of nest parasitism and predation on population growth.

Colorado-Wyoming Academy of Science Annual Meeting, Denver, CO. Range of the Brown-headed Cowbird in Colorado - past and present.

- 1995 Wilson Ornithological Society Annual Meeting, Williamsburg, VA. The factors influencing the reproductive success of the Solitary Vireo (*Vireo solitarius plumbeus*) in Colorado.
- 1994 Colorado-Academy of Science and Southwestern Division of the American Association for the Advancement of Science Annual Meeting, Durango, CO. The impact of predation and brood parasitism on the reproductive success of the Solitary Vireo.

MANUSCRIPTS PUBLISHED (*undergraduate author)

33. Walsh, J.J., T. A. Tuff, A. Cruz, and J. F. Chace. *In Press*. Differential parasitism between two cowbird hosts. Open Ornithology Journal. Open Ornithology Journal.
32. Strom, K. J. and J.F. Chace. *In Press*. Red-eyed Vireo (*Vireo olivaceus*). 2nd Colorado Breeding Bird Atlas species account (L. Wickersham, Ed.).
- 31 Chace, J. F., and A. Cruz. *In review*. 100 years of avifaunal change in the foothill shrub of Boulder County, Colorado. Colorado Field Ornithologists Journal. Submitted January 20, 2015
- 30 Chace, J. F. 2014. Collaborative projects increase student learning outcome performance in non-majors environmental science course. Journal of College Science Teaching 43(9):58-63.
- 29 Chace, J. F., A. Cruz and H. M. Swanson. 2014. A century of waterbird trends in Boulder County. Colorado Birds 48: 11-41.
- 28 Wichowski D. E. and J. F. Chace. 2014. Library Showcase: Modeling Sustainability Across Campus. Pp 91-105 *in* Focus on Educating for Sustainability: Toolkit for Academic Libraries (M. A. Jankowska, ed.), Library Juice Press, Sacramento, CA.
- 27 Posthumous*, E. E., A. Cruz, and J. F. Chace. 2010. The influence of habitat type on bird diversity in the Colorado subalpine. Colorado Birds 44:227-237.
- 26 Chace, J. F., S. D. Faccio, and A. Chacko*. 2009. Canada Warbler Habitat Use of Northern Hardwoods in Vermont. Northeastern Naturalist 16:491-500.
- 25 Chace, J.F., and J. Walsh. 2006. Urbanization impacts on bird communities: a review. Landscape and Urban Planning. 74:46-69
- 24 Chace, J. F. 2005. Host use by sympatric cowbirds in southeastern Arizona. Wilson Bulletin 117: 375-381.
- 23 Ortega, C. P. J. F. Chace, and B. D. Peer (editors). 2005. Management of cowbirds and their hosts: balancing science, ethics, and mandates. Ornithological Monograph No. 57 (American Ornithologists' Union).
- 22 Chace, J.F., C. Farmer, R. Winfree, D. R. Curson, W. E. Jensen, C. B. Goguen, and S. K. Robinson. 2005. Cowbird Ecology: a review of factors influencing the distribution and abundance of cowbirds across spatial scales. Ornithological Monograph 57: 45-70, Management of cowbirds and their hosts: balancing science, ethics, and mandates.
- 21 Ortega, C. P., J. F. Chace, and B. D. Peer. 2005. Research directions and cowbird management. Ornithological Monograph 57: 1-5, Management of cowbirds and their hosts: balancing science, ethics, and mandates.

- 20 Chace, J. F. 2004. Habitat selection by sympatric brood parasites in southeastern Arizona: the influence of landscape, vegetation, and species richness. *Southwestern Naturalist* 49: 24-32.
- 19 Chace, J. F., J. J. Walsh, A. Cruz, J. Prather, and H. E. Swanson. 2003. Spatial and temporal activity patterns of the brood parasitic Brown-headed Cowbird and an urban/wildland interface. *Landscape and Urban Planning* 64: 179-190.
- 18 Chace, J. F., B. Woodworth, and A. Cruz. 2002. Black-whiskered Vireo (*Vireo altiloquus*). In *Birds of North America Species No. 607* (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.
- 17 Sealy, S. G., A. Banks, and J. F. Chace. 2000. Trends in response to cowbird eggs by two subspecies of the Warbling Vireo. *Western Birds* 31:190-194.
- 16 Chace, J. F., S. T. McKinney*, and A. Cruz. 2000. Nest-site characteristics and nesting success of the Greater Pewee in Arizona. *Southwestern Naturalist* 45: 169-175.
- 15 Chace, J. F., A. Cruz, and R. E. Marvil. 2000. Reproductive interactions between the Brown-headed Cowbird and Plumbeous Vireo in Colorado. Pp. 128-134, in J. N. M. Smith, T. L. Cooke, S. I. Rothstein, S. K. Robinson, and S. G. Sealy (eds.), *Ecology and Management of Cowbirds and their Hosts*. University of Texas Press, Austin.
- 14 Chace, J. F. and A. Cruz. 1999. Past and present distribution of the Brown-headed Cowbird in the Rocky Mountain Region. *Studies in Avian Biology* 18: 89-93.
- 13 Chace, J. F. and A. Cruz. 1999. Influence of landscape and cowbird parasitism on the reproductive success of Plumbeous Vireos breeding in Colorado. *Studies in Avian Biology* 18: 200-203.
- 12 Chace, J. F., and R. C. Tweit. 1999. Greater Pewee (*Contopus pertinax*). In *Birds of North America Species No. 450* (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.
- 11 Chace, J. F. and A. Cruz. 1998 The range of the Brown-headed Cowbird in Colorado -- past and present. *Great Basin Naturalist* 58: 245-249.
- 10 Walsh, J. J., A. Cruz, M. E. Berry, J. F. Chace, and D. M. Evans*. 1998. Breeding Range Expansion of the Blue-gray Gnatcatcher along the Northern Colorado Front Range. *J. ColoradoField Ornithol.* 32: 166-172.
- 9 Chace, J.F. 1998. Bell's Vireo. Pp. 302-303 in *Colorado Breeding Bird Atlas* (H. E. Kingery, ed.). Colorado Division of Wildlife and Colorado Bird Atlas Partnership, Denver, CO.
- 8 Chace, J.F. 1998. Plumbeous Vireo. Pp. 306-307 in *Colorado Breeding Bird Atlas* (H. E. Kingery, ed.). Colorado Division of Wildlife and Colorado Bird Atlas Partnership, Denver, CO.
- 7 Chace, J.F. 1998. Red-eyed Vireo. Pp. 310-311 in *Colorado Breeding Bird Atlas* (H. E. Kingery, ed.). Colorado Division of Wildlife and Colorado Bird Atlas Partnership, Denver, CO.
- 6 Chace, J.F. 1998. Common Grackle. Pp. 510-511 in *Colorado Breeding Bird Atlas* (H. E. Kingery, ed.). Colorado Division of Wildlife and Colorado Bird Atlas Partnership, Denver, CO.
- 5 Chace, J.F. 1998. Brown-headed Cowbird. Pp. 514-515 in *Colorado Breeding Bird Atlas* (H. E. Kingery, ed.). Colorado Division of Wildlife and Colorado Bird Atlas Partnership, Denver, CO.
- 4 Chace, J. F., A. Cruz, and A. Cruz, Jr. 1997. Nesting success of the Western Wood-pewee in Colorado. *Western Birds* 28: 110-112.

- 3 Hunter, A.*, A. Cruz, and J. F. Chace. 1997. Preferences among American Pipits for different alpine plant communities on Niwot Ridge, Colorado. *J. Colorado Field Ornithol.* 31: 217-221
- 2 Chace, J. F. 1996. Further information on the *obscurus* race of the Brown-headed Cowbird in Colorado. *J. Colorado Field Ornithol.* 29: 146-148
- 1 Chace, J.F., and A. Cruz. 1996. Knowledge of the Colorado host relations of the parasitic Brown-headed Cowbird (*Molothrus ater*). *J. Colorado Field Ornithol.* 30: 67-81.