

1989 Ph.D. Zoology (Behavioral Ecology), Colorado State University, Fort Collins, CO.
Dissertation title: The Effects Of Time And Metabolic Requirement On Foraging Behavior Of Captive Gray Jays.

Scientific Publications, Crows

- Ha, J.C., P.N. Lehner and S.D. Farley. 1990. Risk-prone foraging behavior in captive gray jays (*Perisoreus canadensis*). *Anim. Behav.* 39:91-96.
- Ha, J.C. and P.N. Lehner. 1990. Notes on gray jay demographics in Colorado. *Wilson Bull.* 102:698-702.
- Ha, J.C. 1991. Risk-sensitive foraging: the role of ambient temperature and foraging time. *Anim. Behav.* 41:528-529.
- Luhning, K.A., J.C. Ha and P.N. Lehner. 1992. Gray jay (*Perisoreus canadensis*) agonistic displays. *Northwestern Naturalist* 73:22- 24.
- Robinette, R.L. and J.C. Ha. 1997. The significance of fishing behavior by Northwestern crows. *Wilson Bulletin* 109:748-749.
- Robinette, R.L. and J.C. Ha. 2000. Beach-foraging behavior of Northwestern crows as a function of tide height. *Northwestern Naturalist* 81:18-21.
- Robinette, R.L. and J.C. Ha. 2001. Social and ecological factors influencing vigilance by Northwestern crows (*Corvus caurinus*). *Animal Behaviour* 62:447-452.
- Robinette, R.L., P. Bentzen, J.L. Marsh and J.C. Ha. 2003. Kin discrimination in food stealing by Northwestern Crows (*Corvus caurinus*). *Bird Behavior* 15: 65-75.
- Ha, R.R. and J.C. Ha. 2003. Effects of prey type, prey density and energy requirements on the use of alternative foraging tactics in crows. *Animal Behaviour* 66: 309-316.
- Ha, J.C., A. Butler, and R.R. Ha. 2010. Age-specific survival and population viability of the Mariana Crow (*Corvus kubaryi*) on Rota, CNMI. *Bird Conservation International*, 20:335-342.
- Ha, R.R., J. Morton, J.C. Ha, L. Berry, and S. Plentovich. 2011. Nest site selection and the consequences for reproductive success for the endangered Mariana crow (*Corvus kubaryi*). *Wilson Journal of Ornithology*, 123:236–242.
- Ha, J.C., J. Buckley, and R.R. Ha. 2012. The potential for typhoon impact on bird populations on the island of Rota, Northern Mariana Islands. *Micronesica*, 43:214-224.
- Mates, E., R. Tarter, J. Ha, A. Clark, K. McGowan. Acoustic profiling in a complexly social species, the American crow: caws encode information on caller sex, identity, and behavioral context. Accepted: *Bioacoustics*.

Research Grants, Crows

- 1984 Research grant: Harris and Eliza Kempner Foundation (with S.D. Farley) for "Risk-sensitive foraging by gray jays in a closed economy."
- 1987 Colorado Mountain Club Foundation Research Fellowship for "Foraging behavior in free-ranging gray jays."
- 2005 Co-PI, USFWS Contract Awarded 2005-2006 – Study Endangered Avian Species on N. Mariana Islands (\$110,000)
- 2005 Co-PI, USFWS Supplemental Awarded 2005-2006 – Study Endangered Avian Species on N. Mariana Islands (\$179,808)
- 2006 Co-PI, USFWS Contract Awarded 2006-2007 – Study Endangered Avian Species on N. Mariana Islands (\$205,000)
- 2006 Co-PI, USFWS Supplemental Awarded – An updated census of the current Mariana crow pairs on the island of Rota (\$32,000)
- 2007 Co-PI, USFWS Contract Awarded 2007-2008 – Study Endangered Avian Species on N. Mariana Islands (\$172,000)
- 2008 Co-PI, USFWS Contract Awarded 2008-2009 – Study Endangered Avian Species on N. Mariana Islands (\$247,000)

2009 Co-PI, USFWS Contract Awarded 2009-2010 – Study Endangered Avian Species on N. Mariana Islands (\$201,000)

2009 Co-PI, USFWS Supplemental Awarded – Radiotracking the Mariana crow on the island of Rota (\$89,200)

2010 Co-PI, USFWS Contract Awarded - 2010-2011 – Study Endangered Avian Species on N. Mariana Islands (\$199,184)

2011 Co-PI, USFWS Contract Awarded - 2011-2012 – Study Endangered Avian Species on N. Mariana Islands (\$196,000)

2011 Co-PI, USFWS Supplemental Awarded – Rehabilitation of Injured Birds and Control of predators on Rota (\$119,600).

2011 Co-PI, USFWS Supplemental Awarded – Public Perception Survey of Native Peoples on Rota, Northern Mariana Islands (\$36,800).

2012 Co-PI, USFWS Contract Awarded - 2012-2013 – Study Endangered Avian Species on N. Mariana Islands (\$262,669).

2013 Co-PI, USFWS Contract Awarded – 2013-2014 Study Endangered Avian Species on N. Mariana Islands (\$116,685).

2013 Co-PI, USFWS Contract Awarded – 2013-2014 Study Endangered Avian Species on N. Mariana Islands (\$178,491).