Curriculum Vitae

Yimen Gerardo Araya Ajoy

Date and place of birth: 02-02-1982, San José, Costa Rica

Work address: Center for Biodiversity Dynamics, Norwegian University of Science and Technology, Høgskoleringen 5, NO-7491 Trondheim

E-mail: yimen.araya-ajoy@ntnu.no

Main research interests

Behavioral ecology, quantitative genetics, evolutionary ecology, plasticity, social evolution

Education

*PhD (Honors)***,** International Max Planck Research School for Organismal Biology and Ludwig-Maximilians-University of Munich 2015.

Master (Honors), Biological Sciences, University of Costa Rica, 2009.

Bachelor, Biological Sciences, University of Costa Rica, 2005.

Research positions

Postdoctoral Researcher, Norwegian University of Science and Technology, Center for Biodiversity Dynamics (2016-).

Postdoctoral Researcher, Max Planck Institute for Ornithology (2015-2016)

Teaching experience

Teacher, “Workshop: Study Design, Sampling Decisions in Mixed-effect Model Analyses”. International Max Planck Research School for Organismal Biology (IMPRS) & Center for Biodiversity Dynamics, Norway-Germany, (2015-2016)

Teacher, Workshop on Evolutionary Ecology of Variance Components, University of Melbourne, Australia, 2015.

Teacher, Workshop on Statistical Approaches to Multivariate Phenotypes, IMPRS and Center for Biodiversity Dynamics, Norway-Germany, 2015.

Teacher, Behavioral Ecology meets Quantitative Genetics, Ludwig-Maximilians-University of Munich (LMU), 2013-2014.

Teaching assistant, Experimental Behavioral Ecology, LMU, 2013.

Teaching assistant, Tropical Ecology and Conservation, Council of the International Exchange Education, Costa Rica, 2009-2010.

Teaching assistant, Ecology, University of Costa Rica (UCR), 2008.

Awards and scholarships

Doctoral Fellowship, Deutscher Akademisher Austauschdienst Dienst, 2012-2014.

Doctoral Fellowship, International Max Planck Research School for Organismal Biology, 2010.

Conference grant, Costa Rican Council of Sciences and Technology, 2008.

Research exchange fellowship, DAAD-Ulm University, Germany, 2007.

Research fellowship, Organization of Tropical Studies, 2006.

Organized meetings and international working groups

*Symposium organize*r, Statistical Quantification of Individual Differences, ISBE, Exeter, 2016.

Member, Working group Statistical Quantification of Individual differences(SQuID).

Contributed R packages

squid: Statistical Quantification of Individual Differences

MultiRR: Bias, precision, and power for multi-level random regressions

Publication list

Araya-Ajoy, Y.G. & Dingemanse, N.J. (2017) Repeatability, heritability, and age-dependence of seasonal plasticity in aggressiveness in a wild passerine bird. Journal of Animal Ecology, 86, 227-238

Allegue, H., **Araya-Ajoy, Y. G**., Dingemanse, N.J., Dochtermann, N.A., Garamszegi, Z., Nakagawa, S., Schielzeth, H. & Westneat, D.F. (2016) Statistical Quantification of Individual Differences (SQuID): an educational and statistical tool for understanding multilevel phenotypic data in linear mixed models. *Methods in Ecology and Evolution, 8, 257-267*.

Araya-Ajoy, Y. G., Kuhn, S., Mathot, K.J., Mouchet, A., Mutzel, A., Nicolaus, M., Wijmenga, J.J., Kempenaers, B. & Dingemanse, N.J. (2016) Sources of (co)variation in alternative siring routes available to male great tits (Parus major). *Evolution*, 70, 2308–2321.

Santostefano, F., Wilson, A,. **Araya-Ajoy, Y.G.,** Dingemanse, N. J., 2016. Interacting with the enemy: indirect effects of personality on conspecific aggression in crickets. *Behavioral Ecology* **27**, 1235–1246.

Araya-Ajoy, Y. G., Dingemanse N. J., Kempenaers, B. (2015) Timing of extra-pair fertilizations: within-pair fertilization trade-offs or pair synchrony spill-overs. *Behavioral Ecology,* **27**, 377–384.

Araya-Ajoy, Y. G., Mathot, K. J., Dingemanse, N.J. (2015) Repeatable reaction norms and the analysis of short- versus long-term repeatability. *Methods in Ecology and Evolution, 6(12)*.

Dingemanse, N. J. & **Araya-Ajoy, Y. G. (**2014) Interacting personalities: behavioural ecology meets quantitative genetics. *Trends in Ecology & Evolution*, 30, 88–97.

Nicolaus, M., Mathot, K. J., **Araya-Ajoy, Y. G.,** Mutzel, A., Wijmenga, J. J., Kempenaers, B. & Dingemanse, N. J. 2014. Does coping style predict optimization? An experimental test in a wild passerine bird. *Proceedings of the Royal Society B*, 282, 20142405.

Araya-Ajoy, Y. G. & Dingemanse, N. J. (2014) Characterizing behavioural “characters”: an evolutionary framework. *Proceedings of the Royal Society B*, 281, 20132645.

Mathot, K. J., Nicolaus, M., **Araya-Ajoy, Y. G.,** Dingemanse, N. J. & Kempenaers, B. (2014) Does metabolic rate predict risk-taking behaviour? A field experiment in a wild passerine bird. *Functional Ecology*, 239–249.

Mutzel, A., Dingemanse, N. J., **Araya-Ajoy, Y.G**., Kempenaers, B. (2013) Parental provisioning behaviour plays a key role in linking personality with reproductive success. *Proceedings of the Royal Society B*, 280, 20131019.

Stuber, E. F., **Araya-Ajoy, Y. G.,** Mathot, K. J., Mutzel, A., Nicolaus, M., Wijmenga, J. J., Mueller, J. C. & Dingemanse, N. J. (2013) Slow explorers take less risk: a problem of sampling bias in ecological studies. *Behavioral Ecology*, 24, 1092–1098.

Araya-Ajoy, Y. G., Chaves-Campos, J., Kalko, E. K. V & Dewoody, J. A. (2009) High-pitched notes during vocal contests signal genetic diversity in ocellated antbirds. *PloS one*, 4, e8137.

Chaves-Campos, J., **Araya-Ajoy, Y. G.**, Lizana-Moreno, C. a & Rabenold, K. N**.** (2009) The effect of local dominance and reciprocal tolerance on feeding aggregations of ocellated antbirds. *Proceedings of the Royal Society B*, 276, 3995–4001.

Submitted manuscripts.

Abbey-Lee, R., **Araya-Ajoy, Y. G**., Mouchet, M., Moiron, M., Stuber, E., Kempenaers, B., Dingemanse, N. Does perceived predation risk affect patterns of extra-pair paternity? A field experiment in a passerine bird ((*submitted; Functional Ecology*).

Class, B., Dingemanse, N., **Araya-Ajoy, Y. G**., Brommer, J. A statistical methodology for estimating assortative mating for phenotypic traits that are labile or measured with error" (*submitted; Methods in Ecology and Evolution*).

Kimberley J. M., Olsen A_L., Mutzel, A., **Araya-Ajoy, Y.G.,** Nicolaus M., Westneat D. F., Wright, J., Kempenaers, B., Dingemanse N. Provisioning tactics of great tits (Parus major) in response to long-term brood size manipulations differ across years. (*submitted; Behavioral Ecology*).

Mutzel, A., Olsen A_L., Kimberley J. M., **Araya-Ajoy, Y.G.**, Nicolaus M., Wijmenga, J. J., Wright, J., Kempenaers, B., Dingemanse N. Personality-related differences in offspring provisioning under threat of nest predation (*submitted; Behavioral Ecology*).

Serrano-Davies, E., **Araya-Ajoy, Y.G.**, Dingemanse, N., Sanz, J, J. Habitat-specific differences in selection on personality in Mediterranean blue tits. (*submitted; Ethology*)

Araya-Ajoy, Y. G., Bolstad, G.H., Brommer, B., Careau, V., Dingemanse , N, J., Wright, J. Quantifying the fast-slow continuum at multiple levels of biological organization. (*submitted; Behavioral Ecology and Sociobiology*)