

CURRICULUM VITAE

Alexander N. G. Kirschel, Ph.D.

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Current and Recent Employment

Assistant Professor – University of Cyprus, July 2015 - present

Head of the Behavioural Ecology and Evolution lab in the Department of Biological Sciences.

Lecturer – University of Cyprus, April 2010 – June 2015

Head of the Behavioural Ecology and Evolution lab in the Department of Biological Sciences.

Marie Curie Research Fellow – University of Oxford, Jan 2011 – Dec 2012

Working on the project “The role of ecological competition in the evolution of animal signals”, focusing on interactions between related species of *Hypocnemis* antbirds in Amazonia.

Visiting Fellow – University of Oxford, Mansfield College, Mar 2012 – July 2012

Assistant Researcher - University of California Los Angeles, Sept 2009 – Mar 2010

Postdoctoral Scholar - University of California Los Angeles, Sept 2008 - Sept 2009.

Worked on National Science Foundation funded project (PI Prof. Charles Taylor) to develop sensor arrays to record, identify and localize antbirds in a Mexican rainforest. Also worked on Veneklasen Foundation funded project (PI Prof. Daniel Blumstein) using remote sensing to predict the geographic distribution of bird and insect sounds across Central Africa.

Education

University of California Los Angeles, PhD Biology, Sept 2003 - August 2008.

Co-advisors Dr. Daniel T. Blumstein and Dr. Charles E. Taylor.

Dissertation research:

How ecology shapes bird song in tropical rainforests: the importance of song in generating biodiversity and structuring communities

University College London, MSc. Built Environment, October 1998

Project title: The control of risk by property developers in change-of-use projects.

University College London, BSc. (Econ.) Honors, Economics June 1997

Honors and Fellowships

2012 John Fell Fund grant – University of Oxford - £4740

2010 Marie Curie International Incoming Fellowship – European Commission – €173,240

- Marie Curie Reintegration Grant – European Commission - €100,000
International Society for Behavioral Ecology Travel Award - \$2000
- 2009 Ecological Society of America Award for Outstanding Student Research in Ecology
- 2008 Doctoral Dissertation Improvement Grant – NSF - \$9205
Lida Scott Brown Fellowship – Departmental - \$6000
Collections Study Grant – American Museum of Natural History - \$750
Otto H. Scherbaum Award in recognition of outstanding research accomplishments as a graduate student.
- 2007 Lewis and Clark Fund – American Philosophical Society - \$3500
Collections Study Grant – Field Museum of Natural History - \$1500
Lida Scott Brown Fellowship – Departmental - \$6000
Lida Scott Brown Research Grant – Departmental - \$3000
Dissertation Year Fellowship – UCLA - \$18500
- 2006 Latin American Center Small Grants – UCLA - \$1800
Lida Scott Brown Fellowship – Departmental - \$6000
Lida Scott Brown Research Grant – Departmental - \$3000
- 2005 Lida Scott Brown Fellowship – Departmental - \$6000
- 2004 Quality of Graduate Education Fellowship – Graduate Division - \$6000
Lida Scott Brown Research Grant – Departmental - \$1800

Teaching Experience

Lecturing:

University of Cyprus (UCY) 2013-17:

Undergraduate: Evolutionary Biology, Behavioural Ecology

Postgraduate: Fieldwork course, Special Topics in Behavioural Ecology, Special Topics in Evolutionary Biology

UCLA Summer Quarter 2006: Advanced Animal Behavior (Upper Division)

Tutorials:

University of Oxford 2012: Sensory Ecology

Teaching assistantships:

UCLA Fall Quarter 2009: Biology of Vertebrates (Upper Division)

UCLA Spring Quarter 2004: Evolution (Upper Division)

UCLA Winter Quarter 2004: Introduction to Ecology and Behavior (Upper Division)

UCLA Fall Quarter 2003: Evolution, Ecology and Biodiversity (Lower Division)

Mentoring at UCY:

Ph.D. students:

Current: Thomas Hadjikyriakou, Martin Hellicar, Nikolas Papanikolas, Emmanuel Nwankwo, Chryso Pallari, Michaela Moysi, Bridget Ogolowa

Former: Louis Hadjioannou

Masters students:

Current: Gregoria Gregoriou

Former: Andreas Ioannou, Georgios Savva

Undergraduate students:

Current: Christos Nikiforou, Demetra Chasikou

Former: Athanasios Karageorgios, Athina Efstathiou, Anna Stylianou, Zacharo Zanti, Andriana Till, Eliza Argyridou, Aggelos Petsavas (ERASMUS)

Language Skills

I am fluent in Greek, with conversational skills in Spanish, French, Italian, and Portuguese.

Publications

- Kassara, C., Gangoso, L., Mellone, U., Piasevoli, G., Hadjikyriakou, T., Tsiopelas, N., Giokas, S., López-López, P., Urios, V., Figuerola, J., Silva, R., Bouten, W., Kirschel, A. N. G., Virani, M., Fiedler, W. Berthold, P., and Gschweng, M. Current and future suitability of wintering grounds for a long-distance migratory raptor. *Scientific Reports* 7:8798
- Clark, C. J.¹, Kirschel, A. N. G.¹, Hadjioannou, L., and Prum, R. O. 2016. Smithornis broadbills produce loud wing song by aerolastic flutter of primary wing feathers. *Journal of Experimental Biology* 219: 1069-1075
- Hadjikyriakou, T. G., and Kirschel, A. N. G. 2016. Video evidence confirms cannibalism in Eleonora's Falcon. *Journal of Raptor Research* 50: 220-223
- Smith, T. B., Harrigan, R. J., Kirschel, A. N. G., Buermann, W., Saatchi, S. Blumstein, D. T., de Kort, S. R., and Slabbekoorn, H. 2013. Predicting Bird Song from Space. *Evolutionary Applications* 6: 865-874.
- Grether, G. F., Anderson, C. N., Drury, J.P., Kirschel, A. N. G., Losin, N., Okamoto, K., and Peiman, K. 2013. The evolutionary consequences of interspecific aggression. *Annals of the New York Academy of Sciences* 1289:48-68.
- Tobias, J. A., Brawn, J. D., Brumfield, R. T., Derryberry, E. P., Kirschel, A. N. G., Seddon, N. 2012. The importance of neotropical suboscine birds as study systems in ecology and evolution. *Ornitologia Neotropical* 23: 259-272
- Kirschel, A. N. G., 2012. A record of Oberländer's Ground Thrush *Zoothera oberlaenderi*, with photographs and a description of the alarm call. *Bulletin of the African Bird Club* 19: 200-201.
- Kirschel, A. N. G., Slabbekoorn, H., Blumstein, D. T., Cohen, R. E., De Kort, S. R., Buermann, W., and Smith, T. B. 2011. Testing alternative hypotheses for evolutionary diversification in an African songbird: Rainforest refugia versus ecological gradients. *Evolution* 65: 3162-3174.
- Blumstein D.T, Mennill, D. J., Clemins, P., Girod, L., Yao, K., Patricelli, G., Deppe, J. L., Krakauer, A. H., Clark, C., Cortopassi, K. A., Hanser, S. F., McCowan, B., Mantik Ali, A., and Kirschel, A. N. G. 2011. Acoustic monitoring in terrestrial environments: applications technological considerations, and prospectus. *Journal of Applied Ecology* 48: 758-767
- Kirschel, A. N. G., Cody, M. L., Harlow, Z. T., Promponas, V., Vallejo, E. E., and Taylor, C. E.

2011. Territorial dynamics of Mexican Antthrushes (*Formicarius moniliger*) revealed by individual recognition of their songs. *Ibis* 153: 255-268
- Collier, T. C., Kirschel, A. N. G., and Taylor, C. E. 2010. Acoustic localization of antbirds in a Mexican rainforest using a wireless sensor network. *Journal of the Acoustical Society of America* 128:182-189.
- Kirschel, A. N. G., Blumstein, D. T., and Smith, T. B. 2009. Character displacement of song and morphology in African tinkerbirds. *Proceedings of the National Academy of Sciences of the United States of America* 106: 8256-8261*
- Kirschel, A. N. G., Blumstein, D. T., Cohen, R. E., Buermann, W., Smith, T. B., and Slabbekoorn, H. 2009. Birdsong tuned to the environment: green hylia song varies with elevation, tree cover, and noise. *Behavioral Ecology* 20:1089-1095.
- Kirschel, A. N. G., Earl, D. A., Yao, Y., Escobar, I., Vilches, E., Vallejo, E. E., and Taylor, C. E. 2009. Using songs to identify individual Mexican Antthrush (*Formicarius moniliger*): A comparison of four classification methods. *Bioacoustics* 19:1-20.
- Kirschel, A. N. G. 2008. Novel courtship behavior in the Little Greenbul (*Andropadus virens*). *Wilson Journal of Ornithology* 120:398-401
- Trifa, V. M., Kirschel, A. N. G., Taylor, C. E., and Vallejo, E. 2008. Automated species recognition of antbirds in a Mexican rainforest using Hidden Markov Models. *Journal of the Acoustical Society of America* 123:2424-2431§
- Trifa, V. M., Kirschel, A. N. G., Yao, Y., Taylor, C., and Girod, L. 2008. From bird species to individual songs recognition: automated methods for localization and recognition in real habitats using wireless sensor networks. Pp 73-81 *in* Computational bioacoustics for assessing biodiversity (eds. Frommolt, K.-H., R. Bardeli, and M. Clausen) BfN-Schriften, German Federal Agency for Nature Conservation, Bonn.

¹ co-corresponding authors.

* selected for Faculty of 1000 Biology

§ selected for the April 15, 2008 issue of Virtual Journal of Biological Physics Research, published by the American Physical Society and the American Institute of Physics.

Manuscripts under review / submitted

Nwankwo, E. C., Pallari, C. Th., Hadjioannou, L., Ioannou, A., Mulwa, R.G., and Kirschel, A. N. G. Rapid song divergence leads to discordance between genetic distance and phenotypic characters important in reproductive isolation. Under review in *Ecology and Evolution*.

Kirschel, A. N. G., Nwankwo, E. C., and Gonzalez, J. C. T. Investigating the status of the enigmatic White-chested Tinkerbird *Pogoniulus makawai* using molecular analysis of the type specimen. Under review in *Ibis*.

Kirschel, A. N. G., Nwankwo, E. C., Seal, N., and Grether, G. F. Phenotypic trait similarity at contact zones influences range overlap and the trajectory of multidimensional character displacement in *Pogoniulus* tinkerbirds. Under revision for resubmission.

Popular press

Kirschel, A. N. G. 2006. What drives song variation in tropical birds? A study across habitats and populations in Cameroon and Uganda. Center for Tropical Research. CTR Research News July 2006 Feature Article.

5 articles on the birds of Saudi Arabia published in the Saudi Arabian national newspaper the Saudi Gazette in late 1999 and early 2000.

Conferences

Invited:

Kirschel, A. N. G., Gonzalez, J. C. T., and Moyle, R. G. 2013. A molecular phylogeny of *Pogoniulus* tinkerbirds contradicts current taxonomy based on morphology and plumage. American Ornithologists Union, Chicago, USA.

Kirschel, A. N. G., Harlow, Z. T., Cody, M. L., Asef, T., Vallejo, E. E., and Taylor, C. E. 2011. Using song recordings and playback experiments to map territories and infer song function in the suboscine mexican anthrush (*formicarius moniliger*) Neotropical Ornithology Congress, Cusco, Peru.

Kirschel, A. N. G., Slabbekoorn, H., Blumstein, D. T., Cohen, R. E., De Kort, S. R., Buermann, W., and Smith, T. B. 2011. Testing alternative hypotheses for evolutionary diversification in an African songbird: Rainforest refugia versus ecological gradients. International Bioacoustics Congress, La Rochelle France.

Contributed:

Kirschel, A. N. G., Clark, C. J., Hadjioannou L., Prum, R. O. 2015. Broadbills produce klaxon-like song by aeroelastic flutter of primary wing feathers during elliptical-flight display. International Ethological Conference, Cairns, Australia.

Kirschel, A. N. G., Zanti, Z., Harlow, Z. T., Powell, L. L., Vallejo, E. E., Cody, M. L. and Taylor, C. E. 2014. Oral Presentation: Integrating song and radio telemetry tracking with playback experiments, to infer intra- and inter-sexual relationships in a Neotropical terrestrial insectivore, *Formicarius moniliger*. International Ornithological Congress, Tokyo, Japan.

Clark, C. J.*, Kirschel, A. N. G.*, Hadjioannou L., Prum, R. O. 2014. Poster Presentation: Cryptic flutter produces klaxon-like song in *Smithornis* broadbills. International Ornithological Congress, Tokyo, Japan. (*contributed equally).

Kirschel, A. N. G., Collier, T. C., and Taylor, C. E. 2014. Insights into the structure of ecological communities from acoustic sensor networks. Ecological Acoustics meeting, Paris, France.

Kirschel, A. N. G., Harlow, Z. T., Cody, Vallejo, E. E., and Taylor, C. E. 2013. Using song recordings and playback experiments to infer intra- and inter-sexual relationships in a Neotropical bird. International Bioacoustics Congress, Pirenopolis, Brazil.

Kirschel, A. N. G. 2013. Convergence in antbird behavior. Edward Grey Institute Conference, Oxford, U.K.

- Kirschel, A. N. G., Gonzalez, J.C., and Moyle, R.G. 2012. A molecular phylogeny of *Pogoniulus* tinkerbirds contradicts current taxonomy based on morphology and plumage. Pan-African Ornithological Congress, Arusha, Tanzania.
- Kirschel, A. N. G. 2012. Phenotypic trait similarity at contact zones influences range overlap and the trajectory of multidimensional character displacement in *Pogoniulus* tinkerbirds. North American Ornithology Conference, Vancouver, Canada.
- Kirschel, A. N. G., Seal, N., and Grether, G. F. 2011. The extent of trait similarity at contact zones influences range overlap and the trajectory of multidimensional character displacement in African tinkerbirds (*Pogoniulus* spp.). International Biogeography Society, Oxford, UK.
- Kirschel, A. N. G. 2011. Edward Grey Institute Conference, Oxford, U.K.
- Kirschel, A. N. G. 2010. Inferences from song and plumage variation for mechanisms driving character displacement in tinkerbirds. Oral Presentation: International Society for Behavioral Ecology, Perth, Australia.
- Kirschel, A. N. G., M. L. Cody, T. C. Collier, Z. Harlow, and C. E. Taylor. 2010. Monitoring territory dynamics of Mexican Antthrush (*Formicarius moniliger*) using song recordings and a wireless sensor network. Oral Presentation: European Conference in Behavioral Biology, University of Ferrara, Ferrara, Italy.
- Kirschel, A. N. G., M. L. Cody, Z. Harlow, and C. E. Taylor. 2010. Territory dynamics of Mexican Antthrush (*Formicarius moniliger*) revealed by their songs. Oral Presentation: COS/AOU/SCO, San Diego, California.
- Kirschel, A. N. G., D. A. Earl, T. C. Collier, M. L. Cody, and C. E. Taylor. 2008. Using songs to identify individual Mexican Antthrush (*Formicarius moniliger*) and their territories. Poster Presentation: International Society for Behavioural Ecology, Cornell University, Ithaca, New York.
- Kirschel, A. N. G., D. T. Blumstein, and T. B. Smith. 2008. Patterns of phenotypic evolution in two related African barbets. Oral Presentation: AOU/COS/SCO, Portland, Oregon
- Kirschel, A. N. G., D. T. Blumstein, and T. B. Smith. 2008. Character displacement in song and morphology of two related African barbets. Oral Presentation: Evolution, University of Minnesota, Minnesota.
- Kirschel, A. N. G., D. T. Blumstein, and T. B. Smith. 2008. Character displacement in tinkerbirds. Oral Presentation: Southern California Animal Behavior, CS Long Beach, California
- Kirschel, A. N. G., V. Trifa, C. Chen, and C. E. Taylor. 2006. Interspecific competition in antbirds: Insights from automated species recognition. Oral Presentation: North American Ornithology Conference, Veracruz, Mexico.
- Kirschel, A. N. G., R. E. Cohen, D. T. Blumstein, H. Slabbekoorn, and T. B. Smith. 2006. Ambient noise drives frequency shifts in the songs of two African rainforest passerines. Oral Presentation: Animal Behavior Society, Snowbird, Utah.
- Kirschel, A. N. G., D. T. Blumstein, H. Slabbekoorn and T. B. Smith. 2005. The role of ecology on song variation in the tinkerbirds *Pogoniulus bilineatus* and *Pogoniulus subsulphureus*. Poster Presentation: Southern California Animal Behavior, UC Riverside, California.

Invited Seminar speaker:

University of Los Andes, Bogota, Colombia; 8th August 2013: Convergence and divergence in tropical bird behaviour: the role of competitive interactions.

Seoul National University, Seoul, South Korea; 25th March 2013: Convergence and divergence in tropical bird behaviour: the role of competitive interactions.

Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain; 20th September 2012: *Title:* Competitive interactions in tropical birds and their role in phenotypic evolution and community structure.

Max Planck Institute for Ornithology, Seewiesen, Germany; 17th July 2012: Competitive interactions in tropical birds and their role in phenotypic evolution and community structure.

Ludwig Maximilian University, Munich, Germany 16th July 2012: Competitive interactions in tropical birds and their role in phenotypic evolution and community structure.

University San Francisco, Quito, Ecuador, 21 February 2011: Communication and competition in tropical birds.

Editorial board:

Associate editor for:

Biodiversity & Conservation Feb 2011- present

Invited reviewer for:

Ecology, Evolution, American Naturalist, Molecular Ecology, Journal of Animal Ecology, Methods in Ecology and Evolution, PLoS ONE, Biology Letters, Animal Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biological Conservation, Molecular Phylogenetics and Evolution, Integrative and Comparative Biology, Ecology and Evolution, Biotropica, Bioacoustics, Auk, Animal Cognition, Journal of Zoology, Frontiers in Zoology, Frontiers in Ecology and Evolution, Journal of Field Ornithology, Ostrich.

University committees

External examiner on Ph.D. defence committee at Imperial College London, for Christos Mammides, Dec 2011.

External examiner on Ph.D. defence committee at Universidad de la Laguna, Tenerife, for Ana Maria Palmero, July 2014.

Chair and member on several Ph.D. comprehensive examination and research proposal committees at UCY

Chair and member on several Master's thesis committees at UCY

UCY Department of Biological Sciences:

Visiting lecturer committee Feb 2013 – present

Responsible for evaluation of applications for visiting lecturer positions.

Postgraduate studies committee Feb 2013 – April 2015; April 2017 - present

Numerous responsibilities, including evaluation of postgraduate admissions applications, conducting interviews with candidates, evaluation of ECTS exemptions, modifications to the structure of postgraduate programmes, formation of postgraduate examination committees, participation on examination committee for theoretical Molecular Biology and Biomedicine Master's, and handling a variety of individual requests from postgraduate students.

Undergraduate studies committee April 2015 – Aug 2017

Departmental Retreat Committee April 2014 – June 2016