

CURRICULUM VITAE

İBRAHİM RAŞİT BİLGİN

Boğaziçi University
Institute of Environmental Sciences
Bebek İstanbul 34342, TURKEY

Personal Data:

Birth Place: Istanbul, Turkey

Birth Date: 15/03/1976

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Positions:

Associate Professor of Biology, since December, 2012.

Assistant Professor, since February, 2008, Boğaziçi University, Institute of Environmental Sciences.

Instructor. January, 2007 - January, 2008. Boğaziçi University, Institute of Environmental Sciences.

Education:

Ph.D, 2006. Ecology and Evolutionary Biology. Columbia University, Department of Ecology Evolution and Environmental Biology.

M. Phil., 2003. Ecology and Evolutionary Biology (*en route* to Ph.D). Columbia University, Department of Ecology Evolution and Environmental Biology.

M.A., 2002. Conservation Biology. Columbia University, Department of Ecology Evolution and Environmental Biology.

M.Sc., 2000, Environmental Science. Boğaziçi University, Institute of Environmental Sciences.

B.S., 1998, Civil Engineering. Boğaziçi University, Department of Civil Engineering.

High School Diploma, 1994. Robert College, Istanbul.

Certificates

Advanced Environmental Policy Certificate, 2004. Columbia University, Department of Ecology Evolution and Environmental Biology.

Peer-Reviewed Research Publications:

- 1) **Bilgin, R.**, Maracı, Ö., Gürün, K., Rebelo, H., Puechmaille, S., Presetnik, P., Hamidovic, D., Fressel, N., Hulva, P., Horáček, I., Ibañez, C., Karataş, A., Karataş, A., Allegrini, B., Georgiakakis, P., Gazaryan, S., Nagy, Z., Abi-Said, M., Lučan, R., Bartonička, T., Nicolaou, H., Scaravelli, D., Karapandža, B., Uhrin, M., Paunović, M., Benda, P. and Juste, J. Circum-Mediterranean Phylogeography of a Bat Coupled with Past Environmental Niche Modelling: A New Paradigm for the Recolonization of Europe? *Molecular Ecology* (Under review).
- 2) Sebastien J. Puechmaille, S.J., Allegrini, B., Benda, P., Gürün, K., Šrámek, J., Ibañez, C., Juste, J. and Bilgin, R. A new species from the *Miniopterus schreibersii* species complex (Chiroptera: Miniopteridae) from the Maghreb region, North Africa. *Zootaxa* (Under review).
- 3) Çoraman, E., Furman, A., Karataş, A., and **Bilgin, R.** 2013. Phylogeographic analysis of Anatolian bats highlights the importance of the region for preserving the Chiropteran mitochondrial genetic diversity in the Western Palaearctic. *Conservation Genetics* **14**:1205–1216.
- 4) Abolafya, M., Onmuş, O., Şekercioğlu, Ç. and **Bilgin, R.** 2013. Environmental Distribution Modeling Of Common Resident And Migratory Passerine Birds From Turkey in a Climate Change Perspective. *Plos One*. 8(7): e68037. doi:10.1371/journal.pone.0068037.
- 5) Furman, A., Çoraman, E., Nagy, Z., Postawa, T., **Bilgin, R.**, Gajewska, M. and Bogdanowicz, W. 2013. Phylogeography of the large Myotis bats (Chiroptera: Vespertilionidae) in Europe, Asia Minor, and Transcaucasia. *Biological Journal of the Linnean Society*, **108**: 189-209.
- 6) **Bilgin, R.**, Maracı, Ö., Gürün, K., Furman, A., Hulva, P., Çoraman, E., Lučan, R. K., Bartonička, T. and Horáček, I. 2012. Syntopic occurrence in Turkey supports separate species status for *Miniopterus schreibersii schreibersii* and *M. schreibersii pallidus* (Mammalia: Chiroptera). *Acta Chiropterologica*, **14**: 279-289.
- 7) **Bilgin, R.**, Keşişoğlu, A. and Rebelo, H. 2012. Distribution Patterns of Bats in Eastern Mediterranean Region in a Climate Change Perspective. *Acta Chiropterologica*, **14**: 425-437.
- 8) Hulva, T., Maresova, T., Dundarova, H., **Bilgin, R.**, Benda, P., Bartonička, T. and Horáček, I. 2012. Environmental margin and island evolution in Middle Eastern populations of the Egyptian fruit bat. *Molecular Ecology*, **21**: 6104-6116.
- 9) **Bilgin, R.** 2012. A Note on the Conservation Genetics of Three Cave-Dwelling Bat Species in Southeastern Europe and Anatolia. *Turkish Journal of Zoology*, **36**: 275-282.
- 10) Koban, E., Denizci, M., Aslan, Ö., Aktoprakligil, D., Aksu, S., Bower, M., Balcioglu, B. K., Ozdemir Bahadir, A., **Bilgin, R.**, Erdag, B., Bagis, H. and Arat, S. 2012. High microsatellite and

mitochondrial diversity in Anatolian native horse breeds shows Anatolia as a genetic conduit between Europe and Asia. *Animal Genetics*, **43**: 41-49.

- 11) Şekercioğlu, Ç. H., Anderson, S., Akçay, E., **Bilgin, R.**, Can, Ö. E., Semiz, G., Tavşanoğlu, Ç., Yokeş, M. B., Soyumert, A., İpekdal, K., Sağlam, İ. K., Yücel, M. and Dalfes, N. 2011. Turkey's globally important biodiversity in crisis. *Biological Conservation*, **144**: 2752–2769.
- 12) Kalkan, E., Kurtuluş, A., Maracı, Ö. and **Bilgin, R.** 2011. Is the Bosphorus Strait a barrier to gene flow for the Mediterranean mussel, *Mytilus galloprovincialis* (Lamarck, 1819)? *Marine Biology Research*, **7**: 690-700.
- 13) **Bilgin, R.** 2011. Back to the Suture: The distribution of genetic diversity in and around Anatolia. *International Journal of Molecular Sciences*, **12**: 4080-4103.
- 14) Gubili, C., **Bilgin, R.**, Kalkan, E. Karhan, S.U., Jones, C.S., Sims, D.W., Kabasakal, H., Martin, A. P. and Noble, L.N. 2011. Antipodean white sharks on a Mediterranean walkabout? Historical dispersal leads to genetic discontinuity and an endangered anomalous population. *Proceedings of the Royal Society Series B: Biological Sciences*, **278**: 1679-1686.
- 15) **Bilgin, R.**, Çoraman, E., Karataş, A. and Morales, J.C. 2009. Phylogeography of the greater horseshoe bat, *Rhinolophus ferrumequinum* (Chiroptera: Rhinolophidae), in southeastern Europe and Anatolia, with a specific focus on whether the Sea of Marmara is a barrier to gene flow. *Acta Chiropterologica*, **11**: 53-60.
- 16) Juste, J. **Bilgin, R.**, Muñoz, J., Ibáñez, C. 2009. mtDNA Signatures At Different Spatial Scales: From The Gibraltar Strait Effect to Population Structure in The Meridional Serotine Bat, *Eptesicus isabellinus*. *Heredity*, **103**: 178-187.
- 17) Furman, A., Çoraman, E., **Bilgin, R.** and Karataş, A. 2009. Molecular ecology and phylogeography of the bent-wing bat complex (*Miniopterus schreibersii*) (Chiroptera: Vespertilionidae) in Asia Minor and adjacent regions, *Zoologica Scripta*, **3**: 129-141.
- 18) **Bilgin, R.**, Karataş, A., Çoraman, E., Disotell, T. and Morales, J.C. 2008. Regionally and climatically restricted patterns of distribution of genetic diversity in a migratory bat species, *Miniopterus schreibersii* (Chiroptera: Vespertilionidae), *BMC Evolutionary Biology*, **8**: 209.
- 19) **Bilgin, R.**, Furman, A., Çoraman, E. and Karataş A. 2008. Phylogeography of the Mediterranean horseshoe bat *Rhinolophus euryale* (Chiroptera: Rhinolophidae) in southeastern Europe and Anatolia, *Acta Chiropterologica*, **10**: 41-49.
- 20) **Bilgin, R.**, Çoraman, E., Karataş, A. and Morales, J.C. 2008. The Mitochondrial and Nuclear Genetic Structure of *Myotis capaccinii* (Chiroptera: Vespertilionidae) in the Eurasian Transition, and Its Taxonomic Implications. *Zoologica Scripta*. **37**: 253-262.

- 21) Campbell, P., Putnam, A., Bonney, C., **Bilgin, R.**, Morales, J.C., Kunz, T.H., Ruedas, L.A. 2007. Contrasting Patterns of Genetic Differentiation Between Endemic and Widespread Species of Fruit Bats (Chiroptera: Pteropodidae) in Sulawesi, Indonesia. *Molecular Phylogenetics and Evolution*. **44**: 474–482.
- 22) **Bilgin, R.** 2007. KGTESTS: A Simple Excel Macro Program To Detect Signatures Of Population Expansion Using Microsatellites. *Molecular Ecology Notes*. **7**: 416-417.
- 23) **Bilgin, R.**, Karataş, A., Çoraman, E., Pandurski, I., Papadatou, E. and Morales, J.C. 2006. Molecular Taxonomy and Phylogeography of *Miniopterus schreibersii* (Kuhl, 1817) (Chiroptera: Vespertilionidae), in the Eurasian Transition. *Biological Journal of the Linnean Society*. **87**: 577-582.

Other Publications

- 1) Furman, A., Çoraman, E., Bilgin, R. 2012. Bats and tourism. *Oryx*, **46**: 330. (letter to the editor).
- 2) Şekercioğlu, Ç. H., Anderson, S., Akçay, E., **Bilgin, R.** 2011. Turkey’s Rich Natural Heritage Under Assault. *Science*, **334**: 1637-1638. (letter to the editor).
- 3) Bilgin, R. 2006. The Phylogeography and Population Genetics of Three Cave-Dwelling Bat Species in Southeastern Europe and Anatolia. (PhD Thesis).
- 4) Bilgin, R. 2004. “Bats Without Borders: Migration in Southeastern Europe”. Project report for Bat Conservation International.
- 5) Bilgin, R. 2003. “A Comparative Genetics Analysis of Cave-Dwelling Bats of Catalca- Kocaeli Region”. Project report for Bat Conservation International.
- 6) Bilgin, R., 2000. The Summer Populations of Cave-Dwelling Bat Species of Catalca-Kocaeli Region and Environmental Factors That Influence Their Distribution (Master’s Thesis).
- 5) Ozgul, A., **Bilgin, R.** and Furman, A, 2000. “Eurasian Bridge’99: Bat Research in Northwestern Turkey.” Project report for BP Conservation Programme.

Publications in Conference Proceedings

- 1) **Bilgin, R.** 2010. Evolution and Conservation of Species in Turkey: Bats as a Case Study (in Turkish). In ‘Our Scientists Saluting Darwin’ (ed. A. Dizdar). Pp 111-117.
- 2) Ozgul, A., **Bilgin, R.** and Furman, A, 2000. The Distribution of Cave-Dwelling Bat Species of Catalca- Kocaeli Region. *Proceedings of the VIIIth European Bat Research Symposium, Krakow*. (ed. B.W. Woloszyn) **17**: 191-198.

Oral Presentations in Professional Meetings

- 1) Circum-Mediterranean Phylogeography of a Bat Coupled with Past Environmental Niche Modelling: A New Paradigm for the Recolonization of Europe? 16th International Bat Research Symposium. **Bilgin, R.**, Maracı, Ö., Gürün, K., Rebelo, H., Puechmaille, S., Presetnik, P., Hamidovic, D., Fressel, N., Hulva, P., Horáček, I., Ibañez, C., Karataş, A., Karataş, A., Allegrini, B., Georgiakakis, P., Gazaryan, S., Nagy, Z., Abi-Said, M., Lučan, R., Bartonička, T., Nicolaou, H., Scaravelli, D., Karapandža, B., Uhrin, M., Paunović, M., Benda, P. and Juste, J. San Jose, Costa Rica, August 2013.
- 2) Genetic differentiation of the Mediterranean mussel (*Mytilus galloprovincialis*) between the Black Sea and the Aegean Sea. 41st Benthic Ecology Meeting. Kalkan, E. and **Bilgin, R.** Norfolk, USA, March 2012.
- 3) Turkey's globally important biodiversity in crisis. 25th International Congress for Conservation Biology. Şekercioğlu, Ç. H., Anderson, S., Akçay, E., **Bilgin, R.** Auckland, New Zealand, December 2011.
- 4) The Distribution of Genetic Diversity of the Bent-winged Bat, *Miniopterus schreibersii*, in Europe and Anatolia. XVth International Bat Research Conference. **Bilgin, R.**, Maracı, Ö., Puechmaille, S. J., Presetnik, P., Hamidovic, D., Fressel, N., Kranpandža, B., Paunović, M., Ibañez, C., Allegrini, B., Gürün, K., Georgiakakis, P., Uhrin, M., Benda, P. and Juste, J.. Prague, Czech Republic, August 2010.
- 5) The Mediterranean Fruit Bats, *Rousettus aegyptiacus*: Distribution, Chorologic Status, and Perspectives. XVth International Bat Research Conference. Horáček, I., Benda, P., Hulva, P., **Bilgin, R.**, Abi-Said, M., Karanouh, R., Aşan, N., Albayrak, İ., Karataş, A., Nicolaou, H., Bartonička, T., Lučan, R. K. Prague, Czech Republic, August 2010.
- 6) The Investigation of Evolutionary History of Turkish Fauna Using Molecular Methods (in Turkish). XXth Turkish Biology Conference. **Bilgin, R.** Denizli, Turkey, June 2010.
- 7) The Effect of the Bosphorus Strait on Gene Flow Between the Black Sea and the Sea of Marmara for the Black Mussel, *Mytilus galloprovincialis*. 40th Benthic Ecology Meeting. Kalkan, E., Kurtuluş, A., Maracı, O., **Bilgin, R.** Wilmington, North Carolina/USA, March 2010.
- 8) A prolegomenon to the systematics and biogeography of *Miniopterus schreibersii* (Kuhl, 1819). 'American Society of Mammalogists' Annual Meeting. Ruedas, L.A., Nagy, Z., Dolan A.C., **Bilgin, R.** and Morales, J.C. Lubbock, Texas/USA, June 2003.

Poster Presentations in Professional Meetings

- 1) A Tale of Two Clades: DNA Barcoding of Twelve Shrimp Species (Order, Decapoda) from Turkish Seas with Phylogeographic Comparisons. 41st Benthic Ecology Meeting. **Bilgin, R.**, Utkan, M.A., Kalkan, E., Karhan, S. Ü., Bekbölet, M. Norfolk, USA, March 2012.
- 2) Distribution Patterns of Bats in Eastern Mediterranean Region in a Climate Change Perspective. XIth European Bat Research Symposium. **Bilgin, R.**, Keşişoğlu, A., Rebelo, H. Lithuania, August 2011.
- 3) The Sympatry of *Miniopterus schreibersii schreibersii* and *Miniopterus schreibersii pallidus* in Three Caves: The Smoking Gun for their Elevation to Full Species Status. XVth International Bat Research Conference. Maracı, O., **Bilgin, R.**, Lučan, R. K., Bartonička T., Hulva, P., Horáček, I. Prague, Czech Republic, August 2010.
- 4) The Historical Dispersal Patterns Of Four Cave-Dwelling Bat Species In Southeastern Europe And Anatolia, And Conservation Implications: A Mini Review. 1st International Bat Migration Conference. Bilgin, R., Coraman, E., Furman, A., Oztunc, T. Berlin, Germany, January 2009.
- 5) Phylogeography of Mouse-eared Bats, *Myotis myotis* and *Myotis blythii*, Present in Anatolia and Turkish Thrace. XIth European Bat Research Symposium. Coraman, E., **Bilgin, R.**, Furman, A. and Oztunc, T. Cluj-Napoca, Romania, August 2008.
- 6) The Distribution of Cave-Dwelling Bat Species of Catalca- Kocaeli Region. VIIIth European Bat Research Symposium. Ozgul, A., **Bilgin, R.** and Furman, A. Krakow, Poland, August 2000.

Supervised Theses – Completed

- 1) Özge Akbaba. 2012. The Prevalence Of *Leucocytozoon toddi* In Bird Blood Samples In Aras-Iğdır and Evaluation Of Its Phylogenetic Relationships (Master's thesis).
- 2) Zirve Yiğit. 2012. Cataloging The Genetic Diversity Of Bats (Order: Chiroptera) In Turkey (Master's thesis).
- 3) Selen Özsinan. 2011. DNA Barcoding Of Seven Hermit Crab Species (Crustacea : Decapoda) From Turkey With Phylogeographic Comparisons (Master's thesis).
- 4) Merve Aslı Utkan. 2011. DNA Barcoding Of Fifteen Shrimp And Prawn Species (Decapoda, Crustacea), Living In Turkish Coastal Waters With Phylogeographic Comparisons. (Master's thesis).
- 5) Nadin Ebeoğlu. 2011. Cataloging The Genetic Diversity Of Birds In Kars-Iğdır Region With Global Comparisons. (Master's thesis).
- 6) Moris Abolafya. 2011. Environmental Distribution Modeling Of Resident And Migratory Passerine Birds From Turkey in a Climate Change Perspective. (Master's thesis, co-supervisor Dr. Ortaç Onmuş).
- 7) Melis Denizci. 2010. The Conservation of Genetic Diversity in Turkish Native Horse Breeds: A

Microsatellite Approach. (Master's thesis, co-supervisor Dr. Berrin Akdağ).

- 8) Ari Keşişoğlu. 2010. Distribution Patterns of Bats in Eastern Mediterranean Region in a Climate Change Perspective. (Master's thesis).
- 9) Özgür Aslan. 2009. The Conservation of Genetic Diversity in Native Turkish Horse Breeds. (Master's thesis, co-supervisor Assoc. Prof. Sezen Arat).
- 10) Aslı Kurtuluş. 2009. The Phylogeography of *Mytilus galloprovincialis* in the Istanbul Strait System (Master's thesis).

Supervised Theses – In Progress

- 1) Evrim Kalkan. Investigating the Role of the Turkish Straits System as a Phylogeographical Break in the Mediterranean – Black Sea Transition (PhD Thesis).
- 2) Öncü Maracı. Investigation of Phylogeny, Evolution and Genetic Diversity in *Secale* Species in Turkey (PhD Thesis).
- 3) Kanat Gürün. The Phylogeographic History, Taxonomy And Conservation of Two Cave-Dwelling Bat Species: *Miniopterus schreibersii* and *Myotis capaccinii* (Chiroptera: Vespertilionidae) (PhD Thesis).
- 4) Meltem Çağlar. The Prevalance Of Avian Malaria in The Migratory Birds of Kars-Kuyucuk Region (Master's thesis).
- 5) Kübra Karaman. The Investigation of Evolution of Genus *Nannospalax* in Turkey (Master's thesis).

Teaching Experience

- 1) Boğaziçi University. ESC 59C. Instructor for 'Molecular Ecology and Evolution' (2007, 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2012).
- 2) Boğaziçi University. ESC 59F. Instructor for 'Genetic Data Analysis' (Spring 2009, Spring 2010, Spring 2011, Spring 2012).
- 3) Boğaziçi University. ESC 572. Instructor for 'Global Environmental Systems' (2008, 2010, 2012).
- 4) Boğaziçi University. ESC 556. Instructor for 'Environmental Biology' (Spring 2009).
- 5) Boğaziçi University. ESC 301. Instructor for "Environmental Dimension" (Fall 2007).
- 6) Columbia University. Teaching Assistant for "Mammalogy" (Fall 2003).
- 7) Columbia University. Teaching Assistant for "Infectious Diseases" (Spring 2002).

Grants for Research

- 1) TÜBİTAK. 30,000 TL (€ 12,000) for “The Investigation of the Population Genetics, Taxonomy and Conservation Status of the Common Bent-wing Bat, *Miniopterus schreibersii*, in Mediterranean Basin and Caucasus”.
- 2) Boğaziçi University Research Fund. 67,500 TL (€ 27,000) for “The Phylogeographical Role of the Turkish Straits System on the Black Sea- Mediterranean Transition” with Evrim Kalkan (PhD Project).
- 3) Boğaziçi University Research Fund. 60,000 TL (€ 24,000) for “From Mammals to Parasites: The Investigation of Evolution of Species With Genetics”.
- 4) Boğaziçi University Research Fund. 55,500 TL (€ 27,000) for “DNA Barcoding of Decapod Crustaceans in Turkish Coasts” with Prof. Miray Bekbölet, Öncü Maracı and Evrim Kalkan.
- 5) TÜBİTAK. 116,020 TL (€ 53,000) for “Investigation of the Black Mussel, *Mytilus galloprovincialis* in Turkish Coastal Waters”.
- 6) Boğaziçi University Research Fund. 31,250 YTL (€ 15,000) for “The Conservation, Population Dynamics and Taxonomy of Two Cave-Dwelling Bat Species, the Greater Mouse-eared Bat, *Myotis myotis* and the Lesser Mouse-eared Bat, *Myotis blythii*, in the Marmara Region”, June 2007, with Dr. Andrzej Furman and Emrah Çoraman.
- 7) Boğaziçi University Research Fund. € 20,000 for “Factors Affecting Diversity Of *Rhinolophus euryale* in The Anatolian Transition Zone”, September 2005, with Dr. Andrzej Furman, Prof. Orhan Yenigün, Dr. A. Kerem Saysel and Emrah Çoraman.

Awards

- 1) PhD Fellowship, Graduate School of Arts and Sciences, Columbia University, 2000-2006.
- 2) Chorafas Foundation Award, Columbia University Runner-up, 2004.
- 3) Bat Conservation International, Student Scholarship Award, \$2500 for “Bats Without Borders: Migration in southeastern Europe”, June 2003.
- 4) Bat Conservation International, Student Scholarship Award, \$2375 for “A comparative genetics analysis of cave-dwelling bats of Catalca- Kocaeli Region”, June 2002.
- 5) BP Conservation Programme Award, \$7000 for “Eurasian Bridge '99”, April 1999.
- 6) Hisar Education Foundation, Student Scholarship, 1994-2000.

Administrative and Other Duties

- 1) Member of the Boğaziçi University Committee on Environment and Ethics (since 2011).

2) Member of the Boğaziçi University Sustainable Development and Cleaner Production Center (since 2011).

3) Founder and Head of the “DNA Barcoding Laboratory” at the Boğaziçi University Institute of Environmental Sciences (since 2010).

4) UNEP/Eurobats (Agreement on the Conservation of Populations of European Bats) - Turkey Focal Point (Since 2009).