

CURRICULUM VITAE

İBRAHİM RAŞİT BİLGİN

Boğaziçi University
Institute of Environmental Sciences
Bebek Istanbul 34342, TURKEY

Personal Data:

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Positions:

Professor of Biology, since October, 2019.
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.

Administrative and Other Duties

1) Head of the Boğaziçi University Committee on Protection of Natural Life (2017-2020).

- 2) Member of the Boğaziçi University Committee on Protection of Natural Life (2014-2020).
- 3) Member of the Boğaziçi University Committee on Environment and Ethics (since 2011).
- 4) Member of the Boğaziçi University Sustainable Development and Cleaner Production Center (since 2011).
- 5) Founder and Head of the “DNA Barcoding Laboratory” at the Boğaziçi University Institute of Environmental Sciences (since 2010).
- 6) UNEP/Eurobats (Agreement on the Conservation of Populations of European Bats) - Turkey Focal Point (Since 2009).

Symposia and Workshops Organized

- 1) 1st (Inaugural) Ecology and Evolutionary Biology Symposium of Turkey. July 12th-13th, 2014. Boğaziçi University, İstanbul, Turkey. (<http://www.eebst2014.boun.edu.tr/EEBST-2014/Home.html>)
- 2) Workshop on “Phylogenetics Analyses with Double digest, Restriction-Site Associated DNA Sequencing (ddRAD-seq) Data”. March 27, 2017. Boğaziçi University, İstanbul, Turkey.
- 3) Workshop on “Phylogenetics Analyses with mitochondrial DNA Data”. September 6th-7th, 2016. Boğaziçi University, İstanbul, Turkey.

Peer-Reviewed Research Publications

- 1) Tonay, A.M., Uzun, B., Dede, A., Amaha Öztürk, A., Danyer, E., Aytemiz Danyer, I., Bilgin, S., Öztürk, B., **Bilgin, R.** 2020. Population genetic structure of the short-beaked common dolphin from the Black Sea and the Turkish Straits System. *Mitochondrial DNA Part A*, **31**: 257-264.
- 2) Şalcıoğlu, A., Gubili, C., Krey, G., Sönmez, A.Y., **Bilgin, R.** 2020. Phylogeography and population dynamics of the Eastern Mediterranean whiting (*Merlangius merlangus*) from the Black Sea, the Turkish Straits System, and the North Aegean Sea. *Fisheries Research*, **229**: 105614.
- 3) Furman, A., Çelik, Y.E., Çoraman, E., **Bilgin, R.** 2020. Reproductive isolation and morphological discrimination of *Myotis myotis macrocephalicus* and *M. blythii* sl (Chiroptera: Vespertilionidae) in Turkey. *Acta Chiropterologica*, **22**: 21-28.
- 4) Gürün, K., Furman, A., Juste, J., Ramos Pereira, M.J., Palmeirim, J.M., Puechmille, S.J., Hulva, P., Presetnik, P., Hamidovic, D., Ibáñez, C., Karataş, A., Allegrini, B., Georgiakakis, P., Scaravelli, D., Uhrin, M., Nicolaou, H., Abi-Said, M. R., Nagy, Z. L., Gazaryan, S., Bilgin, R. 2019. A continent-scale study of the social structure and phylogeography of the bent-wing bat, *Miniopterus schreibersii* (Mammalia: Chiroptera), using new microsatellite data. *Journal of Mammalogy*, **100**: 1865-1878.
- 5) Phelps, K. L., Hamel, L., Alhmod, N., Ali, S., **Bilgin, R.**, Sidamonidze, K., Urushadze, L., Karesh, W., Olival, K. J. B2019. at Research Networks and Viral Surveillance: Gaps and Opportunities in Western Asia. *Viruses* **11**: 240.
- 6) Maraci, Ö., Özkan, H., **Bilgin, R.** 2018. Phylogeny and genetic structure in the genus *Secale*. *PloS One*, **13**(7), e0200825.

- 7) Deli, T., Kalkan, E., Karhan, S.Ü., Uzunova, S., Keikhosravi, A., **Bilgin, R.**, Schubart, C.D. 2018. Parapatric genetic divergence among deep evolutionary lineages in the Mediterranean green crab, *Carcinus aestuarii* (Brachyura, Portunoidea, Carcinidae), accounts for a sharp phylogeographic break in the Eastern Mediterranean. *BMC Evolutionary Biology*, **18**: 53.
- 8) **Bilgin, R.**, Ebeoğlu, N., Inak, S., Kırpık, M.A., Horns, J.J., Şekercioğlu, Ç.H., 2016. DNA barcoding of birds at a migratory hotspot in eastern Turkey highlights continental phylogeographic relationships. *PloS one*, 11(6), p.e0154454.
- 9) Lučan, R.K., Bartonička, T., Benda, P., **Bilgin, R.**, Jedlička, P., Nicolaou, H., Reiter, A., Shohdi, W.M., Šálek, M., Řeřucha, Š., Uhrin, M., 2014. Reproductive seasonality of the Egyptian fruit bat (*Rousettus aegyptiacus*) at the northern limits of its distribution. *Journal of Mammalogy*, **95**: 1036-1042.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) **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., Juste, J. 2016. Circum-Mediterranean Phylogeography of a Bat Coupled with Past Environmental Niche Modelling: A New Paradigm for the Recolonization of Europe? *Molecular Phylogenetics and Evolution* **99**: 323-336.
- 14) **Bilgin, R.**, Utkan, M.A., Kalkan, E., Karhan, S. Ü., Bekbölet, M. DNA barcoding of twelve shrimp species (Crustacea: Decapoda) from Turkish seas reveals cryptic diversity. *Mediterranean Marine Science* **16**: 36-45.
- 15) 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.
- 16) **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* and *M. schreibersii pallidus* (Mammalia: Chiroptera). *Acta Chiropterologica*, **14**: 279-289.
- 17) **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.

- 18) Arda M. Tonay, Yazıcı, Ö., Dede, A., Bilgin, S., Danyer, E., Aytemiz, I., Maracı, Ö., Öztürk, A.A, Öztürk, B., **Bilgin, R.** 2017. Is there a distinct harbor porpoise subpopulation in the Marmara Sea? *Mitochondrial DNA part A* **28**: 558-564.
- 19) Puechmaille, S.J., Allegrini, B., Benda, P., Gürün, K., Šrámek, J., Ibañez, C., Juste, J. and **Bilgin, R.** 2014. A new species from the *Miniopterus schreibersii* species complex (Chiroptera: Miniopteridae) from the Maghreb region, North Africa. *Zootaxa* **3794**: 108–124.
- 20) 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.
- 21) **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.
- 22) Şekercioglu, 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.
- 23) 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.
- 24) **Bilgin, R.** 2011. Back to the Suture: The distribution of genetic diversity in and around Anatolia. *International Journal of Molecular Sciences*, **12**: 4080-4103.
- 25) 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.
- 26) **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.
- 27) Juste, J. **Bilgin, R.**, Muñoz, J., Ibañez, 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.
- 28) 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.
- 29) **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.

- 30) **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.
- 31) **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.
- 32) 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.
- 33) **Bilgin, R.** 2007. KGTESTS: A Simple Excel Macro Program To Detect Signatures Of Population Expansion Using Microsatellites. *Molecular Ecology Notes*. **7**: 416-417.
- 34) **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) **Bilgin, R.**, Karaman, K., Tarhana, Y., Yücel, C., Hemond, E., Yokeş, M., Kalkan, E. and Karhan, S., COI Metabarcoding of Marine Water Samples from the 2nd Turkish Antarctic Expedition (TAE2) Highlights the Deficiencies in the Reference Barcoding Databases for the Continent. 1st DNAQUA International Conference, Online, 9-11 March 2021.
- 2) Genetic investigation on the population structure of the harbour porpoises living in Turkish waters by double digest restriction associated DNA (ddRAD) sequencing. 32nd Conference of European Cetacean Society Uzun, B., Tonay, A.M., Dede, A., Danyer, E., Danyer Aytemiz, I., Öztürk, Amaha A., Öztürk, B., **Bilgin, R.** La Spezia, Italy, 6-10 April 2018.
- 3) Genetic structure of the bottlenose dolphin (*Tursiops truncatus*) in the Turkish waters based on mtDNA sequences. 5th Ecology and Evolutionary Biology Symposium Tonay, A.M., Uzun, B., Dede, A., Danyer, E., Aytemiz Danyer, I., Öztürk, A.A., **Bilgin, R.** İzmir Turkey, 18 -20 July 2018.
- 4) Contrasting phylogeography and population structure in two ecologically similar *Rhinolophus* species, *R. euryale* and *R. mehelyi*. 14th European Bat Research Symposium. Puechmaille, S.J., Allegrini, B., **Bilgin, R.**, Abiadh, A., Ibañez, C., Juste, J., Papadatou, E., Georgiakakis, P., Russo, D., Saphiri, M., Salsamendi, E., Garin, I., Rebelo, H., Toffoli, R., Coutois, J., Rambaut, D., Siemers, B., Teeling, E. Donostia, Basque Country, August 1-5 2017.
- 5) Genetic structure in the Mediterranean bat *Myotis capaccinii*: multiple refugia, post glacial dispersal and mito-nuclear discordance. 14th European Bat Research Symposium. Hemond, E.M., Viglino, A., **Bilgin, R.**, Juste, Javier, Galaverni, M., Puechmaille, S.J., Cosson, E., Caniglia, R. Donostia, Basque Country, August 1-5 2017.
- 6) An investigation of the social structure, species boundaries, hybridization and phylogeography of three *Miniopterus* species (Mammalia: Chiroptera). 14th European Bat Research Symposium. Gürün, K., Furman, A., Juste, J., Ramos-Pereira, M.J., Palmeirim, J.M., Puechmaille, S.J., Hulva, P., Karataş, A., **Bilgin, R.** Donostia, Basque Country, August 1-5 2017.
- 7) Population genetic structure of harbour porpoises (*Phocoena phocoena*) in the Turkish waters. Ecology and Evolutionary Biology Symposium, Turkey 2017. Uzun, B., Tonay, A.M., Dede, A., Öztürk, A.A., Öztürk, B., **Bilgin, R.** İstanbul, Turkey, July 11-13, 2017.
- 8) A phylogeographic investigation of the picarel (*Spicara spp.*) around the Turkish coastal waters with comparisons to the Mediterranean Sea and Atlantic. Ecology and Evolutionary Biology Symposium, Turkey 2017. Şalcıoğlu, A., Krey, G., İnnal, D., Güroy D., Sakınan, S., **Bilgin, R.** İstanbul, Turkey, July 11-13, 2017.

- 9) The intertwined effects of geographic barriers, palaeoclimate and life history on the distribution of genetic diversity: A case study with two marine species in the Eastern Mediterranean. Ecology and Evolutionary Biology Symposium, Turkey 2016. Kalkan, E., **Bilgin, R.** Ankara, Turkey, August 31-September 1, 2016.
- 10) Cytonuclear discordance in the Marbled Crab, *Pachygrapsus marmoratus* (Fabricius, 1787) along the Mediterranean coasts of Turkey. Ecology and Evolutionary Biology Symposium, Turkey 2015. Çetin, C., Furman, A., **Bilgin, R.**, Kalkan, E. Ankara, Turkey, August 6-7, 2015.
- 11) A thorough investigation of the phylogeography and evolutionary history of *Miniopterus schreibersii* (Mammalia: Chiroptera) with new microsatellite data. Ecology and Evolutionary Biology Symposium, Turkey 2015. Gürün, K., Juste, J., Puechmaille, S., Hulva, P., Lucan, R.K., Presetnik, P., Hamidovic, D., Ibañez, C., Karataş, A., Allegrini, B., Georgiakakis, P., Scaravelli, D., Uhrin, M., Nicolou, H., Abu-Said, M., Nagy, Z.L., Gazaryan, S., **Bilgin, R.** Ankara, Turkey, August 6-7, 2015.
- 12) A genetic investigation on the evolution and taxonomy of the genus *Nannospalax* in Turkey. Ecology and Evolutionary Biology Symposium, Turkey 2014. Karaman, K., Kankılıç, T., Kankılıç, T., **Bilgin, R.** İstanbul, Turkey, July 13-14, 2014.
- 13) Evolutionary relationships and history of rye (*Secale* spp.). Ecology and Evolutionary Biology Symposium, Turkey 2014. Maracı, Ö., Özkan, H., **Bilgin, R.** İstanbul, Turkey, July 13-14, 2014.
- 14) Genetic status of the harbour porpoises in the Black Sea and adjacent waters. Joint ACCOBAMS–ASCOBANS Workshop on Cetacean Population Structure. 27th European Cetacean Society’s Annual Conference. Tonay, A.M., **Bilgin, R.** 2013.
- 15) 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., Juste, J. San Jose, Costa Rica, August 2013.
- 16) Reproductive Biology and Seasonal Dynamics of Spatial Activity of *Rousettus aegyptiacus* in the Eastern Mediterranean. 16th International Bat Research Symposium. Bartonička, T., Lucan, R.K., Benda, P., Jedlika, P., Jerucha, Š., **Bilgin, R.**, Abi-Said, M., Porteš, M., Reiter, A., Shohdi, W., Šálek, M., Uhrin, M., Horáček, I. San Jose, Costa Rica, August 2013.
- 17) Environmental margin, island evolution, and anthropogenic impact in middle eastern populations of the Egyptian fruit bat. 16th International Bat Research Symposium. Hulva, P., Marešová, T., Dunderova, H., **Bilgin, R.**, Benda, P., Bartonička, T., Horáček, I. San Jose, Costa Rica, August 2013.
- 18) Genetic differentiation of the Mediterranean mussel (*Mytilus galloprovincialis*) between the Black Sea and the Aegean Sea. 41st Benthic Ecology Meeting. Kalkan, E., **Bilgin, R.** Norfolk, USA, March 2012.
- 19) 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.

- 20) Genetic structure of Egyptian fruit bat in northern distribution limits. 12th European Bat Research Symposium. Hulva, P., Dundarova, C., Maresová, T., **Bilgin, R.**, Benda, P., Bartonička, T., Horáček, I. Vilnius, Lithuania. August 22-26, 2011.
- 21) The Distribution of Genetic Diversity of the Bent-winged Bat, *Miniopterus schreibersii*, in Europe and Anatolia. 15th 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., Juste, J. Prague, Czech Republic, August 2010.
- 22) The Mediterranean fruit bats, *Rousettus aegyptiacus*: distribution, chorologic status, and perspectives. 15th 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.
- 23) The investigation of evolutionary history of Turkish fauna using molecular methods (in Turkish). 20th Turkish Biology Conference. **Bilgin, R.** Denizli, Turkey, June 2010.
- 24) 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.
- 25) 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) Bioinformatics Processing of Double-Digest RAD-seq data in *Myotis capaccinii* around the Mediterranean Basin Ecology and Evolutionary Biology Symposium, Turkey 2017. **Bilgin, R.**, Al Ajami A., Karaman, K., Hemond, E. İzmir, Turkey, July 18-20, 2017.
- 2) Sanger and next-generation sequencing based nuclear genetic analyses of the long-fingered bat, *Myotis capaccinii* around the Mediterranean basin. 14th European Bat Research Symposium. Karaman, K., Şalcıoğlu, A., Gürün, K., Çoraman, E., Furman, A., Karataş, A., **Bilgin, R.** Donostia, Basque Country, August 1-5 2017.
- 3) The mitochondrial phylogeography of the long-fingered bat, *Myotis capaccinii*, around the Mediterranean basin. 14th European Bat Research Symposium. **Bilgin, R.**, Gürün, K., Karaman, K., Juste, J., Benda, P., Viglino, A., Çoraman, E., Karataş, A., Furman, A. Donostia, Basque Country, August 1-5 2017.
- 4) Genetic diversity and phylogenetic analysis of gray wolves and red foxes from different geographical sites in Turkey. Ecology and Evolutionary Biology Symposium, Turkey 2017. Civelek, İ., Sevim, N., Mergenci, A., Şekercioğlu, Ç. H., Chynoweth, M. W., **Bilgin, R.** İstanbul, Turkey, July 11-13, 2017.
- 5) Global review of phylogenetics relationships of the brown bear (*Ursus arctos*). Ecology and Evolutionary Biology Symposium, Turkey 2017. Mergenci, A., Sevim, N., Şekercioğlu, Ç. H., Chynoweth, M. W., **Bilgin, R.** İstanbul, Turkey, July 11-13, 2017.

- 6) Mitochondrial phylogeography of the whiting (*Merlangius merlangus*) along the Turkish coastal waters with comparisons to the Atlantic. Ecology and Evolutionary Biology Symposium, Turkey 2017. Aslı Şalcıoğlu, A., Krey, G., İnnal, D., Güroy, D., Sakınan, S., **Bilgin, R.** İstanbul, Turkey, July 11-13, 2017.
- 7) Do we need to conserve the harbour porpoise (*Phocoena phocoena*) population in the Marmara Sea separately? 31st European Cetacean Society Conference, Middelfart. Uzun, B., Tonay, A.M., Dede, A., Danyer, E., Aytemiz, I., Bilgin, S., Öztürk, A.A., Öztürk, B., **Bilgin, R.** Denmark, May 1-3, 2017.
- 8) Genetic investigation on the short-beaked common dolphin (*Delphinus delphis*) and bottlenose dolphin (*Tursiops truncatus*) in the Turkish seas based on mtDNA sequences. 31st European Cetacean Society Conference. Tonay, A.M., Uzun, B., Dede, A., Danyer, E., Aytemiz Danyer, I., Öztürk, A.A., Öztürk, B., **Bilgin, R.** Middelfart, Denmark. May 1-3, 2017.
- 9) Testing modes of speciation using phyoclimatic modelling in the new world bat genus *Myotis*. 17th International Bat Research Conference. **Bilgin, R.** Durban, South Africa, July 31st-August 5th, 2016.
- 10) A preliminary genetic investigation on the short-beaked common dolphin (*Delphinus delphis*) in the Turkish seas based on mtDNA sequences. 30th Annual Conference of the European Cetacean Society. Tonay, A.M., Uzun, B., Dede, A., Danyer, E., Aytemiz, I., Bilgin, S., Öztürk, A.A., Öztürk, B., **Bilgin, R.** Madeira, Portugal, March 14-16, 2016.
- 11) Population genetic structure of harbour porpoise *Phocoena phocoena* in Turkish waters: what does mtDNA control region say? 30th Annual Conference of the European Cetacean Society. Uzun, B., Tonay, A.M., Dede, A., Danyer, E., Aytemiz, I., Bilgin, S., Öztürk, A.A., Öztürk, B., **Bilgin, R.** Madeira, Portugal, March 14-16, 2016.
- 12) Cataloging the genetic diversity of bats (Order: Chiroptera) in Turkey. Ecology and Evolutionary Biology Symposium, Turkey 2015. Yiğit, Z., Karataş, A., **Bilgin, R.** Ankara, Turkey, August 6-7, 2015.
- 13) Genetic structure of harbour porpoises in the Black Sea and adjacent waters: Where do we stand now? 29th Annual Conf. European Cetacean Society. Uzun, B., Tonay, A.M., Öztürk, A.A., **Bilgin, R.** St Julian's Bay, Malta. March 23-25, 2015.
- 14) An investigation of the phylogeography and the evolutionary history of *Miniopterus schreibersii* (Mammalia: Chiroptera) using nuclear microsatellites. 13th European Bat Research Symposium. Gürün, K., Juste, J., Puechmaille, S., Hulva, P., Lučan, R.K., Presetnik, P., Hamidovic, D., Ibañez, C., Karataş, A., Allegrini, B., Georgiakakis, P., Scaravelli, D., Uhrin, M., Nicolou, H., Abu-Said, M., Nagy, S.L., Gazaryan, S., **Bilgin, R.** Šibenik, Croatia, September 2014.
- 15) The population genetic structure of *Pachygrapsus marmoratus* on Turkish Straits System, the Aegean Sea, the Black Sea and the Levantine Sea and the role of Turkish Straits System on its gene flow. Ecology and Evolutionary Biology Symposium, Turkey 2014. Çetin, C., Kalkan, E., **Bilgin, R.** İstanbul, Turkey, July 13-14, 2014.
- 16) Variability of the mitochondrial control region in the populations of the Black Sea harbour porpoise (*Phocoena phocoena relicta*) in the Turkish Seas. 28th Annual Conf. European Cetacean Society. Tonay, A.M., Yazıcı, Ö., Dede, A., Bilgin, S., Maracı, Ö., Öztürk, A.A., **Bilgin, R.** Liege, Belgium. 5-9 April, 2014.

- 17) 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.
- 18) Distribution patterns of bats in eastern Mediterranean region in a climate change perspective. 12th European Bat Research Symposium. **Bilgin, R.**, Keşişoğlu, A., Rebelo, H. Lithuania, August 22-26, 2011.
- 19) The sympatry of *Miniopterus schreibersii schreibersii* and *Miniopterus schreibersii pallidus* in three caves: The smoking gun for their elevation to full Species status. 15th International Bat Research Conference. Maracı, O., **Bilgin, R.**, Lučan, R. K., Bartonička T., Hulva, P., Horáček, I. Prague, Czech Republic, August 2010.
- 20) 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.
- 21) Phylogeography of mouse-eared bats, *Myotis myotis* and *Myotis blythii*, present in Anatolia and Turkish Thrace. 11th European Bat Research Symposium. Çoraman, E., **Bilgin, R.**, Furman, A. Oztunc, T. Cluj-Napoca, Romania, August 2008.
- 22) The distribution of cave-dwelling bat species of Çatalca- Kocaeli region. 8th European Bat Research Symposium. Ozgul, A., **Bilgin, R.**, Furman, A. Krakow, Poland, August 2000.

Supervised Theses – Completed

- 1) Kanat Gürün. 2018. The Phylogeographic History, Taxonomy And Conservation of Two Cave-Dwelling Bat Species: *Miniopterus schreibersii* and *Myotis capaccinii* (Chiroptera: Vespertilionidae) (PhD Dissertation).
- 2) Aslı Ş. Şalcıoğlu. 2018. Phylogeography and evolutionary history of whiting (*Merlangius merlangus*) and picarel (*Spicara* spp.) along the Turkish coastal waters (PhD dissertation).
- 3) İlkey Civelek. 2018. Global Phylogeographic Comparisons And Dietary Analyses Of Gray Wolf And Red Fox From Sarıkamış And Yenice In Turkey Using Genetics and Genomics Approaches (Master's thesis).
- 4) Murat Bakırdöven. 2018. Behavioural interplay and prepotancy comparison between *Wolbachia* and haplotype-associated reproductive barriers between two populations of *Tetranychus urticae* Koch (Master's thesis).
- 5) Neslihan Edeş. 2017. The effects of reward unpredictability on pigeons' foraging decisions and dopamine's role on pigeons' choice (Master's thesis, , co-supervisor Assist. Prof. Dr. Patrick Enselme).
- 6) Deniz Canca. Comparison of traditional and computer-based instruction on the theme of recycling (PhD Dissertation).
- 7) Meltem Çağlar. 2015. The Prevalance Of Avian Malaria in The Migratory Birds of Kars-Kuyucuk Region (Master's thesis).
- 8) Özge Yazıcı. 2015. An Investigation on the Evolution and Conservation of the Harbor Porpoise, *Phocoena phocoena* in Turkey (Master's thesis).
- 9) Cansu Çetin. 2015. The Population Genetic Structure On the Black Sea, the Sea of Marmara, the Aegean Sea, and the Mediterranean Sea of The Marbled Rock Crab *Pachygrapsus Marmoratus* (Master's thesis, co-

supervisor Prof. Dr. Andrzej Furman).

- 10) Öncü Maracı. 2014. Investigation of Evolutionary Relationships and History of Rye (*Secale. Sp.*) in Turkey With Global Comparisons (PhD Dissertation).
- 11) Kübra Karaman. 2014. A Genetic Investigation on the Evolution and Taxonomy of the Genus *Nannospalax* in Turkey (Master's thesis).
- 12) Evrim Kalkan. 2014. Investigating the Role of the Turkish Straits System as a Phylogeographical Break in the Mediterranean – Black Sea Transition (PhD Dissertation).
- 13) Özge Akbaba. 2012. The Prevalence of *Leucocytozoon toddi* In Bird Blood Samples In Aras-Iğdır and Evaluation Of Its Phylogenetic Relationships (Master's thesis).
- 14) Zirve Yiğit. 2012. Cataloging The Genetic Diversity of Bats (Order: Chiroptera) In Turkey (Master's thesis).
- 15) Selen Özsinan. 2011. DNA Barcoding of Seven Hermit Crab Species (Crustacea : Decapoda) From Turkey With Phylogeographic Comparisons (Master's thesis).
- 16) 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).
- 17) Nadin Ebeoğlu. 2011. Cataloging The Genetic Diversity of Birds In Kars-Iğdir Region With Global Comparisons. (Master's thesis).
- 18) 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).
- 19) Melis Denizci. 2010. The Conservation of Genetic Diversity in Turkish Native Horse Breeds: A Microsatellite Approach. (Master's thesis, co-supervisor Dr. Berrin Akdağ).
- 20) Ari Keşişoğlu. 2010. Distribution Patterns of Bats in Eastern Mediterranean Region in a Climate Change Perspective (Master's thesis).
- 21) Özgür Aslan. 2009. The Conservation of Genetic Diversity in Native Turkish Horse Breeds. (Master's thesis, co-supervisor Assoc. Prof. Sezen Arat).
- 22) Aslı Kurtuluş. 2009. The Phylogeography of *Mytilus galloprovincialis* in the Istanbul Strait System (Master's thesis).

Supervised Theses – In Progress

- 1) Dilek Şahin. Seabird movements in migration bottlenecks: the case of the Yelkouan shearwater (PhD Dissertation).
- 2) Elif İçağasıoğlu. Genetic differentiation of *mytilus galloprovincialis* populations and their genomic responses to salinity stress along the turkish coasts (PhD Dissertation).
- 3) Ayşe Mergenci. Habitat Occupancy Modelling, Activity Patterns and Phylogeographic Relationships of Brown Bears (*Ursus arctos*) Distributed Along Yenice Forests, and Their Implications for Conservation (PhD Dissertation).
- 4) Merve Sivacı. Investigation of The Genomic Responses Of A Local and A Generic Wheat Species to Climate

Change and Comparison of Their Levels of Genetic Diversity (PhD Dissertation).

- 5) Ece Akdoğan. Monitoring Fish Biodiversity In and Around The Turkish Straits System Using The Environmental (e)DNA Method (Master's thesis).
- 6) Ezgi Sancar. Analysis of Fish Biodiversity In The Turkish Straits System Using The Environmental DNA Metabarcoding Approach On Sea Water Samples (Master's thesis).
- 7) Nehir Sevim. Dietary comparison of brown bear at two contrasting bear habitats in turkey using next generation sequencing (Master's thesis).

Grants for Research (as PI) – In progress

- 1) Multi-omic bases of coral disease resistance. July 2020-July 2023. TÜBİTAK (2501). 826,000 TL.
- 2) Genetic differentiation of *Mytilus galloprovincialis* populations and their genomic responses to salinity stress along the Turkish coasts. January 2017 – January 2020. Boğaziçi University Research Fund. 109,148 TL.
- 3) The investigation of evolutionary history, molecular taxonomy and conservation status of the long-fingered bat, *Myotis capaccinii*, using phylogenetic/phylogenomic analyses and ecological niche modelling. October 2014 – May 2017 (final report submitted). TÜBİTAK (1001). 264,948 TL.

Grants for Research (as co-PI or advisor) – In progress

- 1) Investigating the genetic structure of three small cetacean species; *Tursiops truncatus* (Montagu, 1821), *Delphinus delphis* Linnaeus, 1758, *Phocoena phocoena* (Linnaeus, 1758) living in Turkish waters “CetaGen Project”. May 2015 – August 2017. TÜBİTAK (1001).

Grants for Research (as PI) - Completed

- 1) Into the 21st century with the ancient wheats of Anatolia: the investigation of the adaptation of einkorn and emmer wheat to climate change and their genetic erosion with a multidisciplinary approach and development of an insitu conservation programme. June 2015 – March 2019. Boğaziçi University Research Fund. 249,869 TL.
- 2) Using classical Sanger sequencing to investigate whether the mitochondrial DNA structure of *Myotis capaccinii* is reflected in nuclear DNA. July 2016 – December 2016. Boğaziçi University Research Fund. 67,651 TL.
- 3) One species or two species? The investigation of the evolutionary history of *Palaemon elegans* in Turkish waters using nuclear DNA. January 2014- March 2015. Boğaziçi University Research Fund. 40,610 TL.
- 4) The other side of the medallion: using nuclear microsatellites for a more complete understanding of the evolutionary history of the bent-winged bat (*Miniopterus schreibersii*) around the Mediterranean basin and the Caucasus. March 2014 - May 2015. Boğaziçi University Research Fund. 41,654 TL.
- 5) The investigation of the population genetics, taxonomy and conservation status of the common bent-wing bat, *Miniopterus schreibersii*, in Mediterranean basin and Caucasus. November 2012 – November 2013. TÜBİTAK (1002). 30,000 TL.

- 6) The phylogeographical role of the Turkish straits system on the Black sea - Mediterranean transition. November 2011 – December 2013. Boğaziçi University Research Fund. 79,156 TL.
- 7) From mammals to parasites: the investigation of evolution of species with genetics. July 2011 - March 2013. Boğaziçi University Research Fund. 60,000 TL.
- 8) DNA barcoding of Decapod Crustaceans in Turkish coasts. May 2009 – April 2011. Boğaziçi University Research Fund. 59,600 TL.
- 9) Investigation of the black mussel, *Mytilus galloprovincialis* in Turkish coastal waters. TÜBİTAK (Career Grant). 116,020 TL.
- 10) 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- June 2008. Boğaziçi University Research Fund. 31,250 YTL.

Grants for Research (as co-PI or Advisor) - Completed

- 1) Factors affecting diversity of *Rhinolophus euryale* in the Anatolian transition zone (Co-Pi). September 2005- September 2006, with Dr. Andrzej Furman, Prof. Orhan Yenigün, Dr. A. Kerem SAYSSEL and Emrah ÇORAMAN. Boğaziçi University Research Fund. 30,000 TL.

Teaching Experience

- 1) Boğaziçi University. ESC 559. Instructor for ‘Molecular Ecology and Evolution’ (Fall & Spring 2007, Fall & Spring 2008, 2009-2018 -Fall semesters).
- 2) Boğaziçi University. ESC 59F. Instructor for ‘Genetic Data Analysis’ (2009-2019 – Spring semesters).
- 3) Boğaziçi University. ESC 306. Instructor for ‘Evolution’ (Fall & Spring 2013, Fall & Spring 2015, Fall & Spring 2017, Spring 2019, Summer 2014-2018).
- 4) Boğaziçi University. ESC 572. Instructor for ‘Global Environmental Systems’ (Fall & Spring 2008, Fall & Spring 2010, Fall & Spring 2012, Fall & Spring 2014, Fall & Spring 2016).
- 5) Boğaziçi University. ESC 556. Instructor for ‘Environmental Biology’ (Spring 2009).
- 6) Boğaziçi University. ESC 301. Instructor for “Environmental Dimension” (Fall 2007).
- 7) Columbia University. Teaching Assistant for “Mammalogy” (Fall 2003).
- 8) Columbia University. Teaching Assistant for “Infectious Diseases” (Spring 2002).

Awards and Scholarships

- 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 Çatalca- Kocaeli Region”, June 2002.

- 5) BP Conservation Programme Award, \$7000 for "Eurasian Bridge '99", April 1999.
- 6) Hisar Education Foundation, Student Scholarship, 1994-2000.