

Mahmoud-Reza Hemami
Curriculum vitae

Surname: Hemami

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Degrees:

B.Sc. Environmental Science & Fishery, Gorgan University of Agricultural Sciences and Natural resources, Iran, 1991

M.Sc. Environmental Science, University of Tehran, Iran, 1994

Ph.D. Conservation Ecology, University of East Anglia, Norwich, UK, 2003

Title of PhD thesis

The ecology of roe deer (*Capreolus capreolus*) and muntjac (*Muntiacus reevesi*) in a forested landscape in Eastern England.

Employment History

Aug 2004- current:

Faculty member, Department of Natural Resources, Isfahan University of Technology, Iran.

1st November 2003- July 2004

Visiting fellow at the School of Environmental Sciences, University of East Anglia, Norwich, England.

Dec 1994- July 1999:

Lecturer in Environmental Sciences, Faculty of Natural Resources, Isfahan University of Technology, Isfahan, Iran.

April 1993-Sept 1994:

Research fellow, Natural History Museum of Iran, Department of Environment.

Current academic rank: Professor

Professional activities

Nominated as one of the top researchers of Isfahan Province in 2020.
Member of Conservation Breeding Specialist Group, SSC, IUCN.
Member of Antelope Specialist Group, SSC, IUCN.
Member of Equid Specialist Group, SSC, IUCN.
President of the Iranian Ecological Society.
Vice president of the Iranian Society for Biodiversity Conservation.
Member of the board of trustees of "Payam-e Sabz", an Iranian Environmental NGO.
Research consultant for the 'Conservation of Asiatic Cheetah Project' (A joint project of the Iran Department of the Environment and UNDP).
Member of the Wildlife Technical Committee of Iranian Department of Environment.
Member of the Research Committee of Isfahan Provincial Department of Environment.
Member of the Environment, Natural Resources and Climate change committee of the Isfahan Chamber of Commerce, Industries, Mines and Agriculture.

Editorial boards

Iranian Journal of Applied Ecology
Quarterly Journal of Natural Environment
Environmental Resources Research
Journal of Wildlife and Biodiversity

Published Papers

Asadi, H., Soffianian, A., **Hemami, M.R.**, Fakheran, S., Akbari Feizabadi, H., Corcoran, F. (2022). A hybrid GIS-OWA and DANP method for the identification and evaluation of ecotourism attractions: the case study of Abbas Abad Wildlife Refuge, Iran. *GeoJournal*.
<https://doi.org/10.1007/s10708-021-10564-6>

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- Hosseini, S.P., Jafari, R., Esfahani, M.T., Tarkesh, M., Senn, J., **Hemami, M.R.**, Amiri, M. (2021) Investigating habitat degradation of *Ursus arctos* using species distribution modelling and remote sensing in Zagros Mountains of Iran. *Arab J Geosci* 14, 2179. <https://doi.org/10.1007/s12517-021-08490-5>
- Pakniat, D., Ahmadi, M., Shahnaseri, G., **Hemami, M.R.** (2021) Nest-site selection by *Ammomanes deserti* in deserts of southern Iran. *Norwth-Western Journal of Zoology*, 17: 299-303.
- Ahmadi, M., **Hemami, M.R.**, Kaboli, M., Nazarizadeh, M., Malekian, M., Behrooz, R., Geniez, P., Alroy, J., Zimmermann, N.E. (2021) The legacy of Eastern Mediterranean mountain uplifts: rapid disparity of phylogenetic niche conservatism and divergence in mountain vipers. *BMC Ecology and Evolution*, 21:130 <https://doi.org/10.1186/s12862-021-01863-0>.
- Khosravi, R., **Hemami, M.R.**, Malakoutikhah, S., Ashrafzadeh, M.R., Cushman, S.A. (2021) Prey availability modulates predicted range contraction of two large felids in response to changing climate. <https://doi.org/10.1016/j.biocon.2021.109018>
- Goudarzi, F., **Hemami, M.R.**, Malekian, M., Fakheran, S., Martínez-Freiría, F. (2021) Species versus within-species niches: a multi-modelling approach to assess range size of a spring-dwelling amphibian. *Scientific Reports*, 11:597. <https://doi.org/10.1038/s41598-020-79783-0>.
- Hemami M.R.**, Khosravi R., Groves C., Ahmadi M. (2020) Morphological diversity and ecological niche divergence in goitered and sand gazelles. *Ecology and Evolution*, 00:1–14. <https://doi.org/10.1002/ece3.6789>.
- Fadakar, D., Malekian, M., **Hemami, M.R.**, Lerp, H., Rezaei, H.R., Bärman, E.V. (2020) Repeated hybridization of two closely related gazelle species (*Gazella bennettii* and *Gazella subgutturosa*) in central Iran. *Ecology and Evolution*, 00:1–15. <https://doi.org/10.1002/ece3.6774>.
- Karimi, S., **Hemami, M.R.**, Tarkesh Esfahani, M., Baltzinger, C. (2020) Endozoochorous dispersal by herbivores and omnivores depends on germination conditions. *BMC Ecology* 20, 49. <https://doi.org/10.1186/s12898-020-00317-3>.
- Ahmadi, M., Farhadinia, M.S., Cushman, S., **Hemami, M.R.**, Nezami, B., Jowkar, H., MacDonald, D. (2020) SPECIES AND SPACE: a combined gap analysis to guide management planning of conservation areas. *Landscape Ecology*, 35:1505–1517 <https://doi.org/10.1007/s10980-020-01033-5>.
- Pakniat, D., **Hemami, M.R.**, Shahnaseri, G., Maleki, S., Adibi, M.A., Besmeli, M.R., Sehatisabet, M.E., Abbasian, H., Akbari, H., Tohidi, M. (2020) The potential distribution of

wintering and breeding populations of Asian houbara, *Chlamydotis macqueenii*, in Iran. *Bird Conservation International*. DOI: <https://doi.org/10.1017/S0959270920000167>

Malakoutikhah, S., Fakheran, S., **Hemami, M.R.**, Tarkesh, M., Senn, J. (2020) Assessing future distribution, suitability of corridors and efficiency of protected areas to conserve vulnerable ungulates under climate change. *Diversity and Distribution*, 26:1383–1396.

Saadati, M., Soleimani, M., Sadegh-Saba, M., **Hemami, M.R.** (2020) Bioaccumulation of heavy metals (Hg, Cd and Ni) by sentinel crab (*Macrophthalmus depressus*) from sediments of Mousa Bay, Persian Gulf. *Ecotoxicology and Environmental Safety*, 191: 109986. <https://doi.org/10.1016/j.ecoenv.2019.109986>

Esmaceli, S., **Hemami, M.R.**, Goheen, J.R. (2019) Human dimensions of wildlife conservation in Iran: Assessment of human-wildlife conflict in restoring a wide-ranging endangered species. *PLoS ONE* 14(8): e0220702. <https://doi.org/10.1371/journal.pone.0220702>

Khosravi, R., **Hemami, M.R.**, Cushman, S.A. (2019) Multi-scale niche modeling of three sympatric felids of conservation importance in central Iran. *Landscape Ecology*, <https://doi.org/10.1007/s10980-019-00900-0>

Shahnasari, G., **Hemami, M.R.**, Khosravi, R., Malakoutikhah, S., Omidi, M., Cushman, S.A. (2019) Contrasting use of habitat, landscape elements, and corridors by grey wolf and golden jackal in central Iran. *Landscape Ecology*, 34:1263–1277.

Hosseini-Moosavi, S.M., Amininasab, S.M., Xu, C.C.U, **Hemami, M.R.**, Karimpour, R. (2019) Effect of grasshopper availability on the breeding success of the Grey Hypocolius *Hypocolius ampelinus*. *Bird Study*, 66: 279-282.

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Goudarzi, F., **Hemami, M.R.**, Rancilhac, L., Malekian, M., Fakheran, S., Elmer, K.R., Steinfartz, S. (2019) Geographic separation and genetic differentiation of populations are not coupled with niche differentiation in threatened Kaiser's spotted newt (*Neurergus kaiseri*). *Scientific Reports*, 9:6239. <https://doi.org/10.1038/s41598-019-41886-8>

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Kaczensky, P., Kovtun, E., Habibrakhmanov, R., **Hemami, M.R.**, Khaleghi, A., Linnell, J.D.C., Rustamov, E., Sklyarenko, S., Walzer, C., Zuther, S., Kuehn, R. (2018) Genetic characterization of free-ranging Asiatic wild ass in Central Asia as a basis for future conservation strategies. *Conservation Genetics*, 19: 1169-1184.

Dehaghi, I.M., Soffianian, A., **Hemami, M.R.**, Salmanmahiny, A., Wu, G. (2018) Exploring structural and functional corridors for wild sheep (*Ovis orientalis*) in a semi-arid area. *Journal of Arid Environment*, 156: 27-33.

Malakoutikhah, S., Fakheran, S., **Hemami, M.R.**, Senn, J. (2018) Altitudinal heterogeneity and vulnerability assessment of protected area network for climate change adaptation planning in central Iran. *Applied Geography*, 92: 94-103.

Hemami, M.R., Ahmadi, M., Sadegh-Saba, M., Moosavi, S.M.H. (2018) Population estimate and distribution pattern of Indian Ocean humpback dolphin (*Sousa plumbea*) in an industrialised bay, northwestern Persian Gulf. *Ecological Indicators*, 89:631-638.

Karimi S, **Hemami M-R**, Tarkesh Esfahani M, Akhiani H, Baltzinger C (2018). Complementary endozoochorous seed dispersal by large mammals in the Golestan National Park, Iran. *Seed Science Research* 1–9. <https://doi.org/10.1017/S0960258518000351>

Khosravi, R., **Hemami, M.R.**, Cushman, S. (2018) Multi-species assessment of core areas and connectivity of desert carnivores in central Iran. *Diversity and Distribution*, 24: 193-207.

Yousefi, M., Khani, A., Ilanloo, S.S., Nourani, E., Rezaei, M., Tohidfar, M., & **Hemami M.R.** (2017) The Avifauna of Sabzevar county, Khorasan-Razavi, northeastern Iran. *Sandgrouse*, 39:114-121.

Khosravi, R., **Hemami, M.R.**, Malekian, M., Silva, T.L., Rezaei, H.R., Brito, J.C. (2017) Effect of landscape features on genetic structure of the Goitered gazelle (*Gazella subgutturosa*) in Central Iran. *Conservation Genetics*, [DOI 10.1007/s10592-017-1002-2](https://doi.org/10.1007/s10592-017-1002-2).

Hosseini-Moosavi, S.M., Barati, A., **Hemami, M.R.**, Karimpour, R. (2017) Nest site selection and breeding success of the semi-desert bird, Grey Hypocolius *Hypocolius ampelinus* in relation to plant structure of *Ziziphus nummularia*. *Avian Biology Research*, 10: 181-189.

Ahmadi, M, Nezami Balouchi, B., Jowkar, H., **Hemami, M.R.**, Fadakar, D., Malakouti-Khah, S., Ostrowski, S. (2017) Combining landscape suitability and habitat connectivity to conserve the last surviving population of cheetah in Asia. *Diversity and Distribution*, 23:592–603.

Bennett, E.A., Champlot, S., Peters, J., Arbuckle, B.S., Guimaraes, S.,**Hemami, M.R.** ... Geigle, E. (2017) Taming the late Quaternary phylogeography of the Eurasiatic wild ass through ancient and modern DNA. *PLoS ONE* 12(4): e0174216.

Khosravi, R., Adavoudi, R., Malekian, M., **Hemami, M.R.** (2017) Measuring environmental niche isolation between genetically management units of Goitered gazelle, *Gazella subgutturosa* (Guldenstadt, 1970) in Iran. *Journal of Wildlife and Biodiversity* 1(2):60-68

Mirzaei, R, **Hemami, M.R.**, Esmaili-Sari, A. Rezaei, H., Peterson, A.T. (2017) Applying ecological niche modeling to determine avian richness hotspots. *Global Journal of Environmental Science and Management*, 3: 131-142.

Khosravi, R., **Hemami, M.R.**, Malekian, M., Flint, A., Flint, L. (2016) Maxent modeling for predicting potential distribution of goitered gazelle in central Iran: the effect of extent and grain size on performance of the model. *Turkish Journal of Zoology*, 40: 574-585.

Khalili,F. Malekian, M., **Hemami, M.R.** (2016) Characteristics of den, den tree and sites selected by the Persian squirrel in Zagros forests, western Iran. *Mammalia*, 80: 567–570.

Hemami, M.R., Kaczensky, P., Lkhagvasuren, B., Pereladova, O. & Bouskila, A. (2015) *Equus hemionus ssp. onager*. The IUCN Red List of Threatened Species 2015: e.T7966A3144941.

Kaczensky, P., Lkhagvasuren, B., Pereladova, O., **Hemami, M.R.** & Bouskila, A. (2015) *Equus hemionus*. The IUCN Red List of Threatened Species 2015: e.T7951A45171204.

Kaczensky, P., Lkhagvasuren, B., Pereladova, O., **Hemami, M.R.** & Bouskila, A. (2015) *Equus hemionus ssp. hemionus*. The IUCN Red List of Threatened Species 2015: e.T7952A3144453.

Goudarzi, F., **Hemami, M.R.**, Bashari, H. and S. Johnson (2015) Assessing translocation success of the endangered Persian fallow deer using a Bayesian Belief Network. *Ecosphere* 6(10):191.

Rahimi-Pozve, M., Malekian, M., **Hemami, M.R.** (2015) A karyotype comparison among 3 species of Allactaga (Mammalia: Dipodidae) from central Iran. *Turkish Journal of Zoology*, 39: 46-52.

Mirzaei, R, Esmaili-Sari, A. **Hemami, M.R.**, Rezaei, H. (2014) Levels and Variability of Metals in Soils of the Province of Golestan (Iran). *Archives of Environmental Contamination and Toxicology*, 67: 617-29.

Bashari, H., **Hemami, M.R.** (2013). A predictive diagnostic model for wild sheep (*Ovis orientalis*) habitat suitability in Iran. *Journal for Nature Conservation*, 21: 319-325.

Nowzari, H., **Hemami, M.R.**, Karami, M., Kheirkhah-Zarkesh, M.M., Riazi, B., Rubenstein, D.I. (2013) Habitat Use by Persian Onager (*Equus hemionus onager*) in Qatrouyeh National Park, Fars, Iran. *Journal of Natural History*, 47: 2795–2814,

Esmaceli, S., **Hemami, M.R.** (2013) Utilisation of harvester ant nest sites by Persian goitered gazelle in steppes of central Iran. *Basic and Applied Ecology*, 14: 702-711.

Hemami, M.R., Momeni, M. (2013) Estimating abundance of Persian wild ass *Equus hemionus onager* in Qatruiyeh National Park, Iran. *Oryx, The international Journal of Conservation*, 47: 226-272.

Sarhangzadeh J., Yavari², A.R., **Hemami, M.R.**, Jafari², H.R., Shams-Esfandabad, B., (2013). Habitat suitability modeling for wild goat (*Capra aegagrus*) in a mountainous arid area, central Iran. *Caspian Journal of Environmental Science*, 11:41-51.

Aghanajafizadeh, S., **Hemami, M.R.**, Heydari, F., (2012) Nest-site selection by the Asian Houbara Bustard, *Chlamydotis macqueenii*, in the steppe of Harat, Iran (Aves: Otidae): *Zoology in the Middle East*, 57:11-19.

Aghanajafizadeh, S., **Hemami, M.R.**, Naderi, G., Heydari, F., (2012) Estimation of houbara bustard *Chlamydotis macqueenii* population density in the central Iranian steppes. *Zoology in the Middle East*, 56:3-8

Aghanajafizadeh, S., Heydari, G., **Hemami, M.R.** (2011) Nesting hole selection by Syrian woodpecker, *Dendrocopos syriacus*, in Yazd province, Iran. *Zoology in the Middle East*, 53: 3-6.

Hemami, M.R., Naderi, G., Mohammadi, S., Riazi, B., Karami, M. (2011). Nocturnal activity of Iranian jerboa, *Allactaga frouzi* (Mammalia: Rodentia: Dipodidae). *Mammalia*, 75:31-34.

Naderi, G., **Hemami, M.R.**, Mohammadi, S., Riazi, B., Karami, M., Alesheikh (2011) Effect of vegetation and soil conditions on burrow structure and site selection of rare desert rodent - Iranian jerboa (*Allactaga firouzi*). Polish Journal of Ecology, 59: 403-411.

Hosseini-Zavarei, F; Farhadinia, M; **Hemami, M.R.**; Karami, M.; Daniali, R.; Omid, M. (2010). Sex-age structure of Bovids in Ghameshlou, central Iran. Zoology in the Middle East, 51: 3-8.

Shams-Esfandabad, B. Karami, M. **Hemami, M.R.**, Riazi, B. Sadough, M.B. (2010) Habitat associations of wild goat in central Iran: implications for conservation. European Journal of Wildlife Research, 56: 883-894.

Aghainajafi-Zadeh S., **Hemami, M.R.**, Karami, M., Dolman, P.M. (2010) Wintering habitat use by houbara bustard (*Chlamydotis macqueenii*) in steppes of Harat, central Iran. Journal of Arid Environment, 74:912-917.

Farhadinia, M. **Hemami, M.R.** (2010) Prey selection by the critically endangered Asiatic cheetah in central Iran. Journal of Natural History, 44:1239- 1249.

Naderi, G., **Hemami, M.R.**, Riazi, B., Alesheikh, A. (2009) Notes on ecological peculiarities of Iranian Jerboa, *Allactaga firouzi* Womochel, 1978. Zoology in the Middle East, 47: 21-28.

Hosseini, S.M., Fazilati, M., Moulavi, F., Foruzanfar, M., Hajian, M., Abedi, P., Nasiri, N., Kaveh, A.K., Shahverdi, A.H., **Hemami, M.R.**, Nasr-Esfahani, M.H. (2008). Reproductive potential of domestic *Ovis aries* for preservation of threatened *Ovis orientalis isphahanica*: in vitro and in vivo studies. European Journal of Wildlife Research, 55:239-246.

Hemami M.R., Watkinson, A.R., Gill, R.M.A., Dolman, P. (2007) Estimating abundance of introduced Chinese muntjac *Muntiacus reevesi* and native roe deer *Capreolus capreolus* using portable thermal imaging equipment. Mammal Review, 37: 246-254.

Eycott, A.E., Watkinson, A.R., **Hemami, M.-R.** & Dolman, P.M. (2007). The dispersal of vascular plants in a forest mosaic by a guild of mammalian herbivores. Oecologia 154, 107-118.

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Hemami, M.R., Watkinson, A.R. & Dolman P. M. (2005) Population densities and habitat associations of introduced muntjac *Muntiacus reevesi* and native roe deer *Capreolus capreolus* in a lowland pine forest. Forest Ecology and Management, 215: 224-238.

Hemami, M.R. & Dolman P.M. (2005) The disappearance of muntjac (*Muntiacus reevesi*) and roe deer (*Capreolus capreolus*) pellet-groups in a pine forest of lowland England. *European Journal of Wildlife Research*, 51:19-24.

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Karami, M., **Hemami, M.R.** & Groves, C.P. (2002) Taxonomic, distributional and ecological data on gazelles in Iran. *Zoology in the Middle East*, 26: 29-36.

Recent papers written in Persian

Sharifat, A., Hemami, M.R., Khosravi, R., Rezvani, A. (2021). The Effect of Environmental Factors on the Occurrence and Spread of Pest Des Petits Ruminants Disease in Markazi Province, Iran. *Iranian Journal of Applied Ecology*, 10: 47-64.

Khosravi, R., **Hemami, M.R.** (2020) Evaluation and Prioritization of Criteria Affecting the Selection of Landscape Species Using Multi-Criteria Decision-Making Systems. *Iranian Journal of Applied Ecology*, 9:89-96.

Malakutikhah, Sh., Fakheran, S., **Hemami, M.R.**, Tarkesh, M., Senn, J. (2019) Identifying Potential Climatic Refugia to Protect Populations of Goitered Gazelle (*Gazelle subgutturosa*) in the Face of Climate Change (A case Study: Central Iran). *Iranian Journal of Applied Ecology*, 8:1-15.

Ghadirian, O., **Hemami, M.R.**, Soffianian, A., Malekian, M., Poormanafi, S., Amiri, M. (2019) The prediction of Persian Squirrel Distribution Using a Combined Modeling Approach in the Forest Landscapes of Luristan Province. *Iranian Journal of Applied Ecology*, 8: 47-58.

Goudarzi, F., **Hemami, M.R.**, Malekian, M., Fakheran, S. (2019) Ecological Characterization of the breeding habitat of Luristan newt (*Neurergus kaiseri*) at local scale. *Journal of Natural Environment*, 72: 113-127.

Khosravi, R., **Hemami, M.R.** (2018) Evaluation of habitat patches importance to desert landscape connectivity for three fox species, using resistance kernel and graph network. *Arid Biome Scientific and Research Journal*, 8: 51-64.

Karimi, S., **Hemami, M.-R.**, Tarkesh Esfahani, M., Akhiani, H., Baltzinger, C. (2018). Complementary endozoochorous seed dispersal by large mammals in the Golestan National Park, Iran. *Seed Science Research* 1–9. <https://doi.org/10.1017/S0960258518000351>

Karimi, S., **Hemami, M.R.**, Tarkesh Esfahani, M., Baltzinger, Ch (2018) The Role of Brown Bear (*Ursus arctos*) in the Plant Seed Dispersal of Golestan National Park. Iranian Journal Of Applied Ecology, 7: 29-42.

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Akhavan-Ghalibaf, H., IranNejadParizi, M.H., Nejadkoorki, F., **Hemami, M.R.**, Azimzadeh, H.R., Namayandeh, M., Taheri, A., Mokhtari, M. (2017) Interpolation of Yazd city Air Pollution to Heavy Metals of Lead and Cadmium using Laughing Dove's Feather as Indicator of Urban Environment. J Toloobehdasht, 16:1-15.

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