

Somayeh Esmaeili Rineh

Associate Professor of Zoology
Department of Biology
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Personal Details:

Marital Status: Married

Date of Birth: 1981/9/18

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Education:

- BSc. in Zoology, Khwarizmi University, Tehran, Iran (2000-2004).
- MSc. in Zoology, Ferdowsi University, Mashhad, Iran (2004-2007).
- PhD in Zoology, University of Tehran, Tehran, Iran (2008-2013).

Research interests:

- Morphological and Molecular Systematic, karyology, Biogeography and Phylogeny of the Iranian Plateau fauna with special reference to Amphipoda.

Skills:

- Able to operate efficiently PC computer. Familiar with EXCEL, SPSS, PHYLIP, TREEVIEW, Network, TNT and WORD.
- Able to supervise independent or joint research projects in the field of Crustacean and Cave biology.

Research Experiences:

- Chromosomal Preparation, c and G banding, DNA Extraction, Gel Electrophoresis and PCR

Presentation of Workshop:

- Member of The 2nd conference on Scientific and Natural History Museums in Iran. 1-2 February 2006. Ferdowsi University. Mashhad, Iran.
- Member of The 1st conference of applications of Biosystematics studies on Rodents of Iran. 2005. Ferdowsi University. Mashhad, Iran.
- Member of The 1st conference of Biology, Society and Glance to future. 2006. Ferdowsi University. Mashhad, Iran.
- Training of C- banding method in Rodentology Reaserch Group. 2006. Ferdowsi University. Mashhad, Iran. (CD).

Postgraduate student thesis:

- **Seyed Ahmad Mirghafari** (2015). MSc in zoology, MSc graduate in zoology, Biodiversity of subterranean amphipods genus *Niphargus* in northern parts of Hamedan Province.
- **Ali Mohamad Niakan** (2015). MSc in zoology, Biodiversity of subterranean species genus *Niphargus* in karst and cave environments in north of Ilam province.
- **Firoozeh Heidari** (2015). MSc graduate in zoology, Diversity of subterranean fresh water amphipods of the genus *Niphargus* in Kermanshah Province.
- **Fatemeh Ghadery Jah** (2015). MSc graduate in zoology, Biodiversity of subterranean amphipods genus *Niphargus* in southern parts of Hamedan Province.
- **Zeinab Bargrizaneh** (2016). MSc graduate in zoology, The survey of the subterranean amphipods of *Niphargus* genus in the north of the Kohgiluyeh and Boyerahmad province.

- **Mahmood Mamaghani-Shishvan** (2017). MSc graduate in zoology, The survey of the subterranean amphipods of *Niphargus* genus in the central and southern parts of Western Azerbaijan.
- **Somayeh Shabani** (2017). MSc graduate in zoology, the survey of morphological diversity of the genus *Gammarus* Fabricius, 1775 populations in north of Ilam Province.
- **Milad Salkhordeh-Ziabari** (2017). MSc graduate in zoology, Genetic diversity in populations of *Gammarus* genus in north of Ilam Province.

Publications:

Peer reviewed papers:

1. Moradi, B. & Esmaeili-Rineh, S. (2025) Completing the information gap in *Gammarus anodon* (Crustacea: Amphipoda) using molecular and ecological approaches. *Zootaxa*, 5618 (3), 393–410. <https://doi.org/10.11646/zootaxa.5618.3.5>
2. Mirghaffari, S.A. & Esmaeili-Rineh, S. (2025) The discovery of a new *Niphargus* species from the southern part of the Alborz Mountains, located at the eastern limit of the genus range. *Zootaxa*, 5636 (3), 473–486. <https://doi.org/10.11646/zootaxa.5636.3.3>
3. Mamaghani-Shishvan, M., **Esmaeili-Rineh, S.**, Akmal, V., Fišer, C. 2024. A contribution to the knowledge of the genus *Niphargus* (Arthropoda: Crustacea: Amphipoda) in northwestern Iran. *Zoologischer Anzeiger*. 312, 113–123.
4. Mamaghani-Shishvan, M., Akmal, V., Fišer, C., **Esmaeili-Rineh, S.** 2024. Two New Species of Stygobiotic Amphipod *Niphargus* (Amphipoda: Niphargidae) and their Phylogenetic Relationship with Other Congeners from Iran. *Zoological Studies*. doi: 10.6620/ZS.2024.63-23. PMID: 39713789.
5. Mirghaffari, S.A., **Esmaeili-Rineh, S.** 2024. Two new species of groundwater-inhabiting amphipods belonging to the genus *Niphargus* (Arthropoda, Crustacea), from Iran. *Zoosystematics and Evolution* 100(2), 721–738. doi: 10.3897/zse.100.118051
6. Bargrizaneh, Z., Fišer, C., **Esmaeili-Rineh, S.** 2021. Groundwater amphipods of the genus *Niphargus* Schiødt, 1834 in Boyer-Ahmad region (Iran) with description of two new species. *Zoosystema*. 43 (7): 127-144.
7. **Esmaeili-Rineh, S.**, Mirghaffari, S.A. 2020. *Niphargus hegmatanensis* sp. nov. (Crustacea, Amphipoda, Niphargidae), a new species from subterranean freshwaters of Iran. *Iranian Journal of fisheries Science*. 20, 1045–1063.
8. **Esmaeili-Rineh, S.**, 2020. Parsimony Analysis of Endemicity (PAE) in Iranian freshwater basins based on subterranean amphipods genus *Niphargus* (Crustacea, Malacostraca). *Iranian Journal of Animal Biosystematics*. doi: 10.22067/ijab.v16i2.84256

9. **Esmaili-Rineh, S.**, Mamaghani-Shishvan, M., Fišer, C., Akmali, V., and Najafi, N., 2020. Range sizes of groundwater amphipods (Crustacea) are not smaller than range sizes of surface amphipods: a case study from Iran, *Contribution to Zoology*, 89, PP: 1–13.
10. **Esmaili-Rineh, S.**, and Karami, P., 2020. Use maximum entropy modeling (MaxEnt) and K-mean clustering for analysis of subterranean habitats genus *Niphargus* in Iran. *Journal of animal Researches* (In press).
11. Bargrizaneh, Z., Fišer, C., and **Esmaili-Rineh, S.**, 2020. Groundwater amphipods of the genus *Niphargus* Schiödte, 1834 in Boyer-Ahmad region (Iran) with description of two new species. *Zoosystema* (Accepted).
12. **Esmaili-Rineh, S.**, and Mirghaffari, S.A., 2020. *Niphargus hegmatanensis* sp. nov. (Crustacea, Amphipoda, Niphargidae), a new species from subterranean freshwaters of Western Iran. *Iranian Journal of Fisher Science*. (Accepted).
13. Mamaghani-Shishvan M. & **Esmaili-Rineh S.** 2019. A two new species of groundwater amphipods of the genus *Niphargus* Schiödte (Crustacea, Amphipoda, Niphargidae) from the northwestern Iran. *European Journal of Taxonomy* 546: 1-23.
14. **Esmaili-Rineh S.** 2018. A new data of freshwater amphipods of genus *Niphargus* Schiödte, 1849 from Lorestan Province in Iran. *Zootaxa* 4531(2): 242-250.
15. **Esmaili-Rineh, S.**, Mohammad Niakan, A. & Akmali, V. (2018) *Niphargus sarii* sp. n., a new subterranean niphargid (Crustacea: Amphipoda) from Iran based on molecular and morphological characters. *Acta zool. Acad. Sci. Hung.*, 64, 113–132.
16. Najafi, M., Vaissi, S., and **Esmaili-Rineh, S.**, 2018. The Effects of Refugia on *Bufo variabilis* Survival across Developmental Stages 26-30 in the Presence of Invasive Species *Gambusia affinis*. *Journal of physiology and Development*. 12 (1): 69-79.
17. **Esmaili-Rineh, S.** (2018). The biodiversity of subterranean amphipods of genus *Niphargus* in Iran with new record of *N. hosseiniei*. *Journal of Animal Environment Elmi-Pazhoheshi* In Persian (Accepted).
18. Mamaghani-Shishvan, M. **Esmaili-Rineh, S.** and Fišer, C. (2017). An Integrated Morphological and Molecular Approach to A New Species Description of Amphipods in the Niphargidae from Two Caves in West of Iran. *Zoological Studies*, doi:10.6620/ZS.2017.56-33.
19. **Esmaili-Rineh, S.** Sari, A. Fišer, C. and Bargrizaneh, Z. (2017). Completion of molecular taxonomy: description of four amphipod species (Crustacea: Amphipoda: Niphargidae) from Iran and release of database for morphological taxonomy, DOI: 10.1016/j.jcz.2017.04.009.

20. **Esmaeili-Rineh, S.** Mirghaffari, S.A. Sharifi, M. (2017). The description of a new species of *Niphargus* from Iran based on morphological and molecular data. *Subterranean Biology*, 22, 43-58.
21. **Esmaeili-Rineh, S.** Mohammad Niakan, A. and Akmal, V. (2017). *Niphargus sarii* sp. Nov. A new subterranean niphargid (crustacea: amphipoda) from Iran based on molecular and morphological characters. *Acta Zoologica Academiae Scientiarum Hungaricae*, (Accepted).
22. Vahid Akmal, **Somayeh Esmaeili Rineh**, Zeynab Karvand. 2017. Taxonomic status of *Rhinopoma muscatellum* (Chiroptera : Rhinopomatidae) in Iran using morphological characters. *Taxonomy and Biosystematics*. 30: 31-50.
23. **Esmaeili-Rineh, S.** Heidari, F. Fišer, C. and Akmal, V. (2016). Description of new endemic species of the genus *Niphargus* Schiödte, 1849 (Amphipoda: Niphargidae) from a karst spring in Zagros Mountains in Iran. *Zootaxa*, 4126, 338–350.
24. **Esmaeili-Rineh, S.** Akmal, V. Fathipour, F. Heidari, N and Rastegar-Pouyani, N. (2016). New distribution records of cave-dwelling gekkonid lizards (Sauria, Gekkonidae and Phyllodactylidae) in the Zagros Mountains of Iran. *Subterranean Biology*, 18, 39–47.
25. Afroosheh, M. Akmal, V. **Esmaeili-Rineh, S.** and Sharifi, M. (2016). On the distribution, abundance and conservation status of the endangered yellow spotted mountain newt *Neurergus microspilotus* (caudata: salamandridae) in western Iran. *Herpetological Conservation & Biology*, 11(1), 52–60.
26. **Esmaeili-Rineh, S.** Sari, A. Moškrič, A. Delić, T. and Fišer, C. (2015). Molecular Phylogeny of the Subterranean Genus *Niphargus* (Crustacea: Amphipoda) in the Middle East: A Comparison with European Niphargids. *Zoological Journal of the Linnean Society*, 175, 812–826.
27. **Esmaeili-Rineh, S.** Sari, A. and Fišer, C. (2015). Making future taxonomy of *Niphargus* (Crustacea: Amphipoda: Niphargidae) in the Middle East easier: DELTA database of Middle East species with description of four new species from Iran. *Zootaxa*, 4020 (3): 401–430.
28. Sharifi, M. Akmal, V. Fathinia, B. Veisi, S. and **Esmaeili-Rineh, S.** (2014). Record of predation on the bat *Rhinopoma microphyllum* (Chiroptera: Rhinopomatidae) by the *Spalerosophis microlepis* (Reptilia: Colubridae), in western Iran. *Galemys*, 26. DOI: 10.7325/Galemys.2014.N6.
29. **Esmaeili-Rineh, S.** and Sari, A. (2013). Two new species of *Niphargus* Schiödte, 1849 (Crustacea: Amphipoda: Niphargidae) from two caves in Iran. *Journal of Natural History*. DOI:10.1080/00222933.2013.802041.

30. **Esmaeili-Rineh, S.** Darvish, J, Hadad. F and Ghasemzadeh. F. (2008). A new Karyotype of *Calomyscus* from the Khorasan Province, Iran. *Hystrix It. J. Mamm*, 19 (1), 67-71.
31. Akmal, V. Sharifi, M. **Esmaeili-Rineh, S.** and Ghorbani, R. (2008). Evidence of sperm storage in *Myotis capaccinii* (Chiroptera: Vespertilionidae) in western Iran. *J. Vet. Res.* 63, 2:63-67.

Projects

1. Iran National Science Foundation (INSF-92033591): Biodiversity of subterranean amphipods in western Iran (Kermanshah, Lorestan, Ilam and Hamedan Provinces).
2. Iran National Science Foundation (INSF-96005707): The survey of subterranean amphipods of genus *Niphargus* in Kurdistan, West Azerbaijan and Kohgiluyeh and Boyer-Ahmad Provinces.

Papers published in proceeding:

1. Parastoo Esmaili and **Somayeh Esmaeili-Rineh.** (2025). The effect of diets on the growth and developmental process of the flour beetle *T. molitor*. Iranian Biology Society.
2. Negin Shahmoradi and **Somayeh Esmaeili-Rineh.** (2025). Thermal developmental plasticity in *Tenebrio molitor* larvae: optimizing rearing parameters for sustainable insect production. Iranian Biology Society.
- 3.
4. Fatemeh Ghadery-Jah, Firooze Heidari, Vahid Akmal and Somayeh Esmaeili Rineh. 2015. Cave biodiversity. 33rd National Geosciences Symposium. Geological Survey of Iran, Tehran.
5. Firooze Heidari and Somayeh Esmaeili Rineh. 2015. Morphological diversity of cave dwelling species of *Niphargus* genus in Iran. 33rd National Geosciences Symposium. Geological Survey of Iran, Tehran.
6. Mohamad Niakan, A. Heidari, F. Ghaderi-jah, F. Akmal, V. and **Esmaeili-Rineh, S.** (2014). The adaptations of subterranean animals in hypogean environments. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.
7. **Esmaeili-Rineh, S.** (2014). The survey of troglomorphic characters in *N. alisadri* in alisadr cave. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.

8. Akmalı, V. Akbarpoor, M. **Esmaili-Rineh, S.** and Rastegar-Pouyani, N. (2014). On cave-dwelling lizards of the family Gekkonidae in the Zagros Mountains. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.
9. **Esmaili-Rineh, S.** Karampor, N. Akmalı, V. Taheri, K. and Sharifi, M. (2014). The conservational importance of ecological and evolutionary functions in cave and karst environment. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.
10. **Esmaili-Rineh, S.** (2013). Sexual dimorphism in *N. alisadri* from subterranean amphipods. 4th annual scientific Conference of Razi University. 17-20 Azar 1392.
11. Akmalı, V, Sharifi, M. and **Esmaili-Rineh, S.** (2011). Corrective measures in management of bat habitats in central Zagros. 1th conservation of biodiversity in the central zagros landscape conservation zone project. Isfahan University of technology.
12. **Esmaili-Rineh, S.** Akmalı, V. Sari, A. and Sharifi, M. (2010). Biodiversity in karst areas and role of conservation in the stability of karst ecosystem. 1th Iranian national conference on applied research in water resources. Kermanshah University of technology.

Seminar Presentation:

1. **Esmaili-Rineh, S.** Mirghaffari, SA. Mamaghani, M. and Akmalı, V. (2016). New record of *N. alisadri* from Hamedan Province. 19th National and 7th International Congress of Biology in Iran. 30Aug-1Sept.
2. Akmalı, V. Sharifi, M. and **Esmaili-Rineh, S.** (2014). Taxonomic status of *Rhinopoma muscatellum* Thomas, 1903 (Chiroptera: Rhinopomatidae) in Iran. 88th Annual Meeting of the German Society for Mammalian Biology. Giessen (Germany), 1st–4th September.
3. **Esmaili-Rineh, S.** Akmalı, V. (2014). The variation in morphological characters of *N. alisadri* populations. 18th National and 6th International Congress of Biology in Iran. 26-29 August.
4. **Esmaili-Rineh, S.** and Sari A. (2012). Description of two new species of *Niphargus* genus from two caves in Iran. 21th International Conference on Subterranean Biology, Košice, Slovakia. Pavol Jozef Šafárik University.
5. **Esmaili-Rineh, S.** and Sari, A. (2011). The management of subterranean water and conservation from biodiversity in central zagros. 1th conservation of biodiversity in the central zagros landscape conservation zone project. Isfahan University of technology.
6. **Esmaili-Rineh, S.** and Sari, A. (2011). Species diversity of hypogean amphipods of the genus *Niphargus* in Iran: morphological stasis and genetic diversity. Biosystematics conference. Berlin, Germany.

7. **Esmaeili-Rineh, S.** and Sari A. (2010). Niphargids of Iran with focus on the Zagros Mountains. 20th International Conference on Subterranean Biology. Postjona, Republic of Slovenia.
8. Akmalı, V. Sharifi, M. Darvish, J. and **Esmaeili-Rineh, S.** (2010). Distribution and abundance of cave-dwelling bats in Fars province, Iran: implication to bat conservation. 15th International bat research Conference, Prague, Czech Republic.
9. **Esmaeili-Rineh, S.** Akmalı, V. Sharifi, M. (2010). Tadovan Cave a living ecosystem in Iran for study of bats. 15th International bat research Conference. Prague, Czech Republic.
10. Akmalı, V. **Esmaeili-Rineh, S.** and Farazmand, A. (2010). Diversity and Distribution of subterranean species in karst areas of Iran. 20th International Conference on Subterranean Biology. Postjona, Republic of Slovenia.
11. **Esmaeili-Rineh, S.** and Darvish, J. (2006). Comparison of blood tissue in rodents of Khorasan. 14th and 2nd international conference biology. Tarbiyat Modares University. Tehran, Iran.
12. **Esmaeili-Rineh, S.** and Darvish, J. (2007). Morphologic and morphometric studies of Calomyscus (mammalia: calomyscidae) in Khorasan. 1st Iranian conference of Animal science and Biodiversity, Guilan University.
13. Akmalı, V. Sharifi, M. and **Esmaeili-Rineh, S.** (2007). Care and maintenance of five species bats in a flight cage. 1st Iranian conference of Animal science and Biodiversity, Guilan University.
14. **Esmaeili-Rineh, S.** and Shakib, F. The Museums and Phylogenetic Classification. The 2nd conference on Scientific and natural history Museums in Iran. 1-2 February 2006. Ferdowsi University. Mashhad, Iran.
15. **Esmaeili-Rineh, S.** Golmakani, T. and Shakib, F. (2006). Aqua Culture Systems and Drainage Recycling. Biology, Society and Glance to future. Ferdowsi University. Mashhad, Iran.
16. **Esmaeili-Rineh, S.** Virus disease in Rodents. 1st Symposium of Rodents. (2005). Ferdowsi University. Mashhad, Iran.
17. **Esmaeili-Rineh, S.** and Darvish, J. Chromosomal evolution in rodents. (2008). 2nd conference of applications of Biosystematic studies on Rodents of Iran. 6-8 Feb. Ferdowsi University. Mashhad, Iran.