

SHIRIN TAHERI

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PROFILE

I am a quantitative & computational ecologist and broadly interested in the ecological dynamics associated with spatial and temporal global change. My research mainly focuses on the broad-scale patterns and long-term impact of anthropogenic changes on biodiversity loss.

I have solid experience in Geo-information science to address the challenges in Environmental systems (e.g., climate change, biodiversity loss, Ecosystem and vegetation dynamics).

I have also strong international mobility and experience of being in several multidisciplinary and multicultural research institutes and universities, including the University of Tehran (Iran), University of Twente (The Netherlands), Imperial College London (UK), University of Évora (Portugal), University of Copenhagen (Denmark) and MNCN-CSIC (Spain).

SKILLS

- R, Python, R Shiny, QGIS, ArcGIS, GRASS GIS
- Geospatial Science
- Spatial statistics / Statistical Analysis
- Time series analysis & Spatio-temporal modeling
- Data visualization & Interpretation
- Machine learning
- Excellent written and oral communication skills
- Scientific writing
- Species Distribution Modeling
- Climate change ecology
- Ability to work under pressure to meet deadlines
- Ability to work on multiple projects
- Teamwork

EDUCATION

PhD. In Ecology, Conservation & Ecosystem Restoration
9/2018 – 9/2022
Department of Biogeography and Global Change, National Museum of Natural Sciences- CSIC. Madrid, Spain

M.Sc. In Geo-Information Science and Earth Observation-Natural Resources
9/2008 -3/2010
University of Twente (ITC), The Netherlands

EXPERIENCE

Data Analyst & Researcher Science & Business SL. Madrid, Spain
Current- Short-term project.

- Modeling the extinction risk across the geographic ranges of 400 birds' species in Europe under ongoing climate and land-use change.
- Data mining, wrangling & Data analysis
- Writing scientific report from results.

Doctoral Research Assistant Spanish National Research Council (CSIC-MNCN)
9/2017–2/2022

- Research design, data mining & wrangling, analysing the biological data, interpretation of the results and writing scientific reports.
- Provided a review of the state-of-the-art and knowledge gap on biodiversity assessment under contemporary climate change.
- Developed R-Package (*climetrics*- available in CRAN) to measure multiple dimensions of climate change.
- Presenting results in international conferences.
- Served as board member in International Biogeography Society. 2017-2019.

Research Assistant Centre of Macroecology, Evolution and Climate(Globe), University of Copenhagen, Denmark.
2/2015–2/2017

- Developed methodological framework for detection and attribution of contemporary climate change in biodiversity assessments.
- Conducted statistical analysis, results visualization, interpretation and scientific reporting under supervision.

Research Assistant Imperial College London, Department of Life Science, Silwood Park Campus.
1/2014–1/2015

- Digitized and georeferenced maps of >200 birds' species in the UK and investigated their extinction risk under global climate change.
- Served as teaching assistant in Ecological Niche Modelling course in R and prepared teaching material and practical part of the course.

Research Assistant Research Centre in Biodiversity and Genetic Resources. Universidade de Évora, Portugal
1/2012–12/2013

- Digitization and geo-referencing the species distribution maps & modeling species distributions under future climate scenarios.
- Interpretation of results and scientific writing under supervision.

GIS & data Analyst, SAP Consulting Engineering
4/2002–4/2008

- GIS data analyst in several Environmental impact assessment projects of power plants, dam & road constructions & land-use planning.
- GIS data analyst in sustainable site selections for large greenhouses, power plants, roads and touristic sites.
- GIS data analyst in Integration coastal zone managements for Caspian Sea and Persian Gulf (ICZM).

CERTIFICATES

- Scientific Writing & Publishing taught by Nature Masterclasses (11 hours' online course, January 2021)
- Computational Tools for Biologists (November 11th to 15th November-2019) CIBIO, University of Evora.
- Scientific Writing Course (May 8th to 10th May-2019) The National Museum of Natural Sciences (MNCN-CSIC), Spain, Madrid.
- Phylogenetic comparative methods in ecology (2^d and the 6th of October-2017) CIBIO, University of Evora.
- Modelling Species Distribution under climate change (August 29th to September 2nd-2012) University of Copenhagen, Denmark
- Ecological Consequences of climate change: "Integrating Research Approaches" (September 24th to October 5th-2012) EBD-CSIC, Estación Biológica de Doñana, Spain
- System analysis and Modeling (2011) University of Twente, The Netherlands

LANGUAGES

- Persian (Native) ■■■■■■
- English ■■■■■■
- Spanish ■■■□□

SCHOLARITY REVIEWS

- Global Change Biology
- Communication Biology
- PLOS ONE
- Frontiers in Ecology and Evolution

[1] **Taheri, S.**, Naimi, B., Rahbek, C., Araújo, M. B. (2021). Improvements in reports of species redistribution under climate change are required. *Science Advances*, 7(15). DOI: 10.1126/sciadv. abe1110

[2] **Taheri, S.**, Garcia-Callejas, D., Araújo, M. B. (2021). Discriminating climate, land-cover and random effects on species range dynamics. *Global Change Biology*, 6(27). <https://doi.org/10.1111/gcb.15483>

[3] **Taheri, S.**, Naimi, B. & Araújo, M.B. Did British breeding birds move north in the late 20th century? *ClimChangResponses* 3, 5 (2016). <https://doi.org/10.1186/s40665-016-0020-5>

[4] Gornish, E., Jill A. Hamilton, Albert Barberan, Blas M. Benito, Amrei Binzer, Julie E. DeMeester, Robert Gruwez, Bruno Moreira, **Shirin Taheri**, Sara Tomiolo, Catarina Vinagre, Pauline Vuarin, Jennifer Weaver (2013) *Interdisciplinary Climate Change Collaborations Are Essential for Early-Career Scientists*, *EOS, Transactions American Geophysical Union* 94: 151-151.

[5] Faryadi, Sh, **Taheri, S.** (2009) Interconnections of Urban Green Spaces and Environmental Quality of Tehran, *International Journal of Environmental Research (IJER)*, 3 (2), pp. 199-208.

PAPERS IN PREPARATION OR NEAR SUBMISSION

[6] **Taheri, S.**, Naimi, B., Araújo, M.B. climetric: R package to quantify multiple dimensions of climate change. (Submitted to *Ecography*)

[7] **Taheri, S.**, Araújo, B. M. Exposure of global threatened species distributions to climate and land-use changes over the past century (In preparation)

[8] **Taheri, S.**, Araújo, B. M. Directionality in recent distribution of European breeding birds. (In preparation)

CONFERENCE PUBLICATIONS & PRESENTATIONS

[9] **Taheri, S.**, Garcia Callejas, D., Araújo, B. M. Teasing apart random, climate and land-use on species range dynamics. 9th Biennial Conference of the **International Biogeography Society (IBS)** University of Malaga, Spain (January 20-25, 2019), Oral presentation.

[10] **Taheri, S.**, Naimi, B., Rahbek, C., Araújo, B. M. Improving assessments of species range shifts under climate change. Special Meeting (Climate Change Biogeography) **International Biogeography Society (IBS)**, University of Évora, Portugal (March 20-24, 2018), Oral presentation.

[11] Elected and nominated as **IBS board member** for two years between January 2017 and January 2019. 8th Biennial Conference of the International Biogeography Society (IBS) University of Arizona. Tucson, USA (January 9-13, 2017).

[12] **Taheri, S.**, Naimi, B., Araújo, M.B. Have British birds expanded Northward? 7th Biennial Conference of the **International Biogeography Society (IBS)**, January 8-12, 2015, University of Bayreuth, Germany, Poster presentation.

[13] **Taheri, S.**, Naimi, B., Araújo, M.B. Multidirectional range shifts of British breeding birds in the 20th century. **BES Macroecology Conference**, May 8-12, 2015, University of Copenhagen, Denmark, Poster presentation.

[14] **Taheri, S.**, Toxopeus, A.G., de Bie, C.A.J.M. and Skidmore, A.K. (2010) Application of hyper temporal NDVI images in modelling species distribution, **Annual Ecology Meeting**, 9-10 February 2010 University of Wageningen, The Netherlands.