Hamed Asadi

MSc Environmental Engineering | Prospective PhD Researcher
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Research Profile

Quantitative environmental researcher specialising in spatial modelling and data-driven conservation systems. My work integrates GIS-based spatial analysis, species distribution modelling (SDMs), climate scenario assessment (CMIP6), and structured decision-support frameworks to generate decision-relevant insights for biodiversity conservation and environmental management. I develop reproducible R-based analytical workflows for environmental data processing, modelling, and reporting.

Research Interests

- Spatial environmental modelling and applied geospatial analysis
- Species distribution modelling (SDMs) and climate change impacts
- Climate scenario assessment (CMIP6; SSP pathways)
- Conservation planning and protected area assessment
- Structured spatial decision-support (MCDA) for environmental management

Education

- **MSc**, Natural Resources Engineering – Environmental Sciences — Isfahan University of Technology, Iran (2013–2016)

Thesis: Evaluating the ecotourism attractions of Abbas Abad Wildlife Refuge

Methods: GIS–MCDA (DANP, OWA), spatial suitability mapping

GPA: 15.88/20 | **Thesis Grade: 19.62/20**

- **BSc**, Natural Resources Engineering – Environmental Sciences — University of Guilan, Iran (2009–2013)

Project: Analysis of five production wastes in Songor city

GPA: 15.83/20 | Project Grade: 19/20

Publications

Ahmadi, M., Nawaz, M. A., Asadi, H., et al. (2024). Protecting alpine biodiversity in the Middle East from climate change: Implications for high-elevation birds. Diversity and Distributions.

Asadi, H.*, Soffianian, A., Hemami, M.-R., et al. (2022). A hybrid GIS-OWA and DANP method for the identification and evaluation of ecotourism attractions. GeoJournal (Springer). (*Corresponding author)

Research Experience

- Climate-driven biodiversity impact assessment using SDM workflows and CMIP6 scenarios.
- Development of GIS-based suitability and prioritisation maps for conservation and land-use planning.
- Identification of climate refugia and GIS-based protected area gap analysis.
- Design and implementation of structured MCDA decision frameworks (DANP–OWA).
- Translation of modelling outputs into decision-relevant spatial planning scenarios.

Technical & Computational Skills

- R / RStudio: data manipulation, visualisation, environmental modelling workflows, SDM implementation.
- Python (basic data processing).
- ArcGIS: spatial modelling, suitability mapping, environmental layer processing.
- Climate scenarios: CMIP6 (SSP2-4.5, SSP5-8.5).
- MCDA tools: DEMATEL, DANP, OWA.

Academic Service

Peer Reviewer for international peer-reviewed journals in environmental science and ecology.

ORCID: 0000-0003-0435-5733

Professional Experience

Environmental Consultant — Bina Azma Sepahan Co., Isfahan, Iran (2013–Present)

Environmental assessment and consulting services; applied environmental analysis supporting planning projects.

English Proficiency

PTE Academic: Overall 80 (Speaking 90, Writing 74) — Valid until Dec 2027

Honors & Awards

Ranked 18th among >3300 participants in the Iranian National MSc Entrance Exam (2013).

Selected as an Exceptionally Talented Student in the undergraduate program (2013).

Certifications & Training

- Data Manipulation in R (Intersect Australia, 2022).
- Data Visualisation in R (Intersect Australia, 2022).
- R Programming Software (Matris Pedia Training, 2022).
- Learn to Program Python (Intersect Australia, 2022).
- GIS Software (University of Guilan, 2013).
- ENVI Software (Isfahan University of Technology, 2013).
- Health, Safety & Environment (HSE) course (Isfahan University of Technology, 2015–2016).

Languages

Kurdish (native), Persian (native), English (fluent).