Hamed Asadi

MSc Environmental Engineering | Prospective PhD Researcher (Australia / New Zealand)

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Research Profile

MSc Environmental Engineering researcher with experience in climate change impact assessment, biodiversity conservation, and GIS-based spatial modeling. My research integrates species distribution models (SDMs), climate change scenarios, and spatial decision-making tools to support evidence-based environmental planning and conservation strategies. I have published peer-reviewed research on climate change impacts on alpine biodiversity and have applied experience using R and GIS for environmental analysis. I am seeking PhD opportunities in Australia or New Zealand within research groups that value data-driven, applied environmental research with real-world impact.

Research Interests

• Climate change impacts on biodiversity and ecosystems

• Species distribution modeling (SDMs) and climate refugia

• GIS-based spatial analysis and environmental modeling

• Conservation planning and protected area assessment

• Multi-criteria decision analysis for environmental management

• Sustainable land-use and ecotourism planning

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

1. 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.

2. 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 change impact assessment on alpine biodiversity using SDMs (e.g., MaxEnt, Random Forest, GBM, GLM).

• Analysis of future climate scenarios (CMIP6; SSP2-4.5, SSP5-8.5).

• Identification of climate refugia and GIS-based gap analysis of protected areas.

• GIS-based multi-criteria decision analysis (DANP, OWA) for land-use and ecotourism planning.

• Integration of ecological data with spatial decision-making frameworks for conservation prioritization.

Technical & Computational Skills
• Programming & Data: R / RStudio (data manipulation, visualization, SDMs), Python (basic)

• GIS & Spatial Analysis: ArcGIS, spatial modeling, suitability mapping

• Modeling: Species distribution models, climate data analysis (CMIP6, SSP scenarios)

• Decision-Making Tools: MCDA (DEMATEL, DANP, OWA)

Additional Skills
• Long-term and advanced training in bodybuilding, boxing, and swimming

• Strong self-discipline, consistency, and stress management

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