MARYAM DANESHFAR

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PROFESSIONAL EXPERIENCE

2019- Present	Research Associate **Technical University of Berlin, Berlin, Germany** Task leader: integrating surrounding and environment data in BIM and BEM; 'BIM-SPEED', Horizon 2020 project for BIM-based residential building renovation
2018-2019	Front-end Web Developer **ORCA Geo services GmbH, Brandenburg an der Havel, Germany** Web application development for clients in the field of agriculture, crop management, plantation management and certification
2016-2018	Research Assistant **University of Hohenheim, Stuttgart, Germany** Automated delineation of orchard and street-line trees in Baden-Württemberg using photogrammetric aerial photograph
2012-2014	GIS Analyst **Parsboom Consulting Engineers, Tehran, Iran** Geospatial data management**;** Map drafting**;** Geospatial analysis

SKILL

TECHNICAL SKILLS	• GIS • Ontology Development • Energy Simulation • System Engineering • Spatial Analysis • Cartography • Geoinformatics	• Geoprocessing • Surveying and mapping • Web development • Web-mapping • BIM • Object-based Image Analysis
TOOLS & TECHNOLOGIES	• ArcGIS/ QGIS • EnergyPlus • Protegé • JavaScript/HTML • Angular	• Python/R/MATLAB • CAD • Trimble e-Cognition • REST API • Microsoft Office
PERSONAL SKILLS	• Critical thinking • Analysis and problem solving • Teamwork • Adaptability • Task leadership	• Research • Scientific writing • Scientific reviewing • Written and oral communication • Teaching/Supervising
LANGUAGE SKILLS	• English: Professional working proficiency • German: Intermediate Proficiency • Farsi: Native or bilingual proficiency	

EUCATION

2019- Present	Ph.D. Civil Engineering **Department of Civil and Building Systems, Civil Engineering Institute, Technical University of Berlin, Berlin, Germany** Dissertation topic: Effect and integration of surrounding and environmental data in energy-efficient building renovation
2014-2016	MSc. Applied Geoinformatics **Department of Geoinformatics, University of Salzburg, Salzburg, Austria** Master thesis: Transfer of an analysis workflow from ArcGIS to Grass GIS; The case of forest fire risk assessment under drought conditions
2005-2010	BSc. Civil Engineering – Geomatics and Surveying **Faculty of Engineering, University of Tehran, Tehran, Iran** Study emphasis: Surveying, Geomatics, Geodesy, Photogrammetry, Remote sensing, GIS, Geosciences, Urban planning

TEACHING AND ACADEMIC SERVICES

2021-Present	*Teaching Assistant* **Technical University of Berlin, Berlin, Germany** Held presentations and student support in *Product Modeling* module (Prof. Dr. Timo Hartmann)
2016-2018	**University of Hohenheim, Stuttgart, Germany** Held presentations and student support sessions for GIS in *Landscape Ecology* module (Prof. Dr. Klaus Schmieder)
2014-2016	**University of Salzburg** Student support sessions for *Object-based Image Analysis (OBIA)* module (Prof. Dr. Stefan Lang)
2020-Present	*Thesis Supervision* **Technical University of Berlin, Berlin, Germany** Master and Bachelor thesis supervision with the topics related to building energy simulation and prediction
2020-Present	*Reviewing* Reviewing for the journal of *Advanced Engineering Informatics*

SCEINTIFIC PUBLICATIONS AND PRESENTATION

2022	Daneshfar, M., Hartmann, T., & Rabe, J. (2022). An ontology to represent geospatial data to support building renovation. Advanced Engineering Informatics, 52, 101591.
2020	Daneshfar, M., Hartmann, T., & Rabe, J. (2020). A GIS-based ontology for surrounding buildings to support building renovation. LDAC2020 - *8th Linked Data in Architecture and Construction Workshop*

REFERENCE

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