

MARYAM DANESHFAR

Civil Engineering Institute, Technical University of Berlin

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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

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

SKILL

TECHNICAL SKILLS	<ul style="list-style-type: none"> • GIS • Ontology Development • Energy Simulation • System Engineering • Spatial Analysis • Cartography • Geoinformatics 	<ul style="list-style-type: none"> • Geoprocessing • Surveying and mapping • Web development • Web-mapping • BIM • Object-based Image Analysis
TOOLS & TECHNOLOGIES	<ul style="list-style-type: none"> • ArcGIS • QGIS • EnergyPlus • Protegé • JavaScript/HTML • Angular • REST API 	<ul style="list-style-type: none"> • Python • R • MATLAB • CAD • Trimble e-Cognition • Microsoft Office
PERSONAL SKILLS	<ul style="list-style-type: none"> • Critical thinking • Analysis and problem solving • Teamwork • Adaptability • Task leadership 	<ul style="list-style-type: none"> • Research • Scientific writing • Scientific reviewing • Written and oral communication • Teaching • Supervising
LANGUAGE SKILLS	<ul style="list-style-type: none"> • English: Professional working proficiency • German: Intermediate Proficiency • Farsi: Native or bilingual proficiency 	

TEACHING AND ACADEMIC SERVICES

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

SCIENTIFIC PUBLICATIONS AND PRESENTATION

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

REFERENCE

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Prof. Jochen Rabe

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