Dr. Ghadi (PhD) Asso IGS Associate	C. Prof. Westbank- Palestine P.O.BOX: 198 Post code: P7261286
Personal Info	 Sex: Male Date of Birth : 01.08.1980 Place of Birth: Dier-Ghazala – Palestine Nationality : Palestinian Marital status : Married
Education	Oct 2008 – Jan 2013Technische Universität Darmstadt PhD, Geodesy , Darmstadt, GermanyOct 2004 – Jul 2006Karlsruhe University of Applied Sciences MSc., Geomatics, Karlsruhe, GermanySep 1998 – Aug 2003Palestine Polytechnic University B.Eng, surveying and Geomatics Engineering, Hebron, PalestineSep 1997 – Jul 1998Jenin Secondary Boys School Secondary School, Scientific Branch, Hebron, West Bank, Palestine
Professional Experience	 2007-Now: Licensed Land Surveyor, since 2007. <u>2003-2004</u>: Teaching assistant for Surveying and Geomatics Eng at PPU, discussions, and Labs: Photogrammetry, Geodesy, and Adjustment. <u>2003</u>: GIS and Cartography, Electricity Network Map of Al-Fawwar Camp. <u>2006-2008</u>: Lecturer for Surveying and Geomatics Eng at PPU, teaching: Photogrammetry1, Photogrammetry2, digital Photogrammetry, Surveying, GPS, GIS, Geodesy and Adjustment.

• <u>2009 – 2011</u>: External *Physical Geodesy* Teacher for Master of Geomatics Students.

- <u>2010:</u> taking apart in the project: Development of a *High capacity Real-Time GNSS* Positioning Service for Moldova (MOLDPOS). <u>www.moldpos.eu</u>.
- <u>2010</u>: GPS/Geodetic Engineer, fixing and testing of the *MOLDPOS GPS-Network* with respect to the Coordinates Transformations and the Accuracy of the calculated coordinates and heights.
- 2008-2012: Development of DFHRS at the Hochschule Karlsruhe. www.dfhbf.de .
- <u>2013-Now:</u> *Lecturer for Surveying and Geomatics* Eng at PPU, teaching: Photogrammetry1/2, digital Photogrammetry, Surveying, GIS, GNSS/Geodesy and Adjustment.
- <u>2013:</u> GIS trainer, Advanced GIS for Cadastral Surveys for the Land Surveying Department.
- <u>2013-2014</u> : Project Controller , *Cadastral Surveys* of more than 7,500 Donums in Dura city for the Land Surveying Department.
- <u>2015</u>: Geometric Correction and Image Processing *of Photogramoteric Orthophoto of Hebron* City and Surrounding Area (30x30 km). Positional accuracy transformed from 5m to 0.3m.

	• <u>2016</u> : Geometric Correction and Image Processing <i>of Photogramoteric Orthophoto</i> <i>of AL-Dahriyya</i> City (10x10 km). Positional accuracy transformed from 5m to 0.3m.			
	• <u>2017: (TESLA-project by Erasmus+):</u> Virtual Reality application in higher education in Palestine (GIS and Geography).			
	• <u>2018: (GNSS Service Network – Geodetic)</u> : design of GNSS CORS network in Palestine for geodetic infrastructures including ITRF connection and Orbit transformations (GROMA-GeoSystems).			
	• <u>2019</u> : Real Estate Evaluator			
	• <u>2022-2023 (Al-Kola Cadastral Project- Bani Naim, Hebron)</u> : Land Parcelation, Demarkation, GIS Management, Roads Planning, Topographic Mapping using aerial Photogrammetry, earthworks.			
	 <u>2023 (Survey of Incomplete Jordanian Cadastral Blocks of Tamoon, Tubas)</u>: finding old parcel border/corner marks of old 14,000 Donums of Jordanial cadastral blocks, resurverying, Georeferencing of scanned block sheets, digitizing and updating block sheets. 			
	• Land Surveying courses (PPU): Surveying I & II, advanced Plan Surveying			
Teaching Experience	• <i>Geodesy courses</i> : Geodesy (PPU), Physical Geodesy (HS-Karlsruhe), gravimetry (HS-Karlsruhe)			
	 <i>Adjustment</i> : Theory of Errors I & II (PPU), Adjustment & Statistics (HS-Karlsruhe) GNSS (PPU) 			
	• <i>Photogrammetry (PPU):</i> Photogrammetry I & II, Digital Photogrammetry			
	• Scientific Research Methods (PPU)			
	www.researchgate.net/profile/Ghadi_Younis			
	https://scholar.google.com/citations?user=705dRs8AAAAJ&hl=en			
	JOURNAL ARTICLES			
Publications	JOURNAL ARTICLES Ghadi Younis: The Effect of Using Multiple Coordinate Systems and Datum Transformations on the Calculated Coordinates in Palestine. Bulletin of Geography: Physical Geography Series 12/2020, 19(1): 31-41 DOI:10.2478/bgeo- 2020-0008 Ghadi Younis: 3D Modelling of Earth Kinematics in Palestine for GNSS and Geodetic			
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Publications	 IOURNAL ARTICLES Ghadi Younis: The Effect of Using Multiple Coordinate Systems and Datum Transformations on the Calculated Coordinates in Palestine. Bulletin of Geography: Physical Geography Series 12/2020, 19(1): 31-41 DOI:10.2478/bgeo-2020-0008 Ghadi Younis: 3D Modelling of Earth Kinematics in Palestine for GNSS and Geodetic Time-Dependent Positioning. International Journal of Recent Technology and Engineering 09/2019, 8(3):6034-6039 DOI:10.35940/ijrte.C5577.098319 Ghadi Younis: The Integration of GNSS/Leveling Data with Global Geopotential Models to Define the Height Reference System of Palestine. ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING 07/2018; 43(7):3639–3645., 			
Publications	 Ghadi Younis: The Effect of Using Multiple Coordinate Systems and Datum Transformations on the Calculated Coordinates in Palestine. Bulletin of Geography: Physical Geography Series 12/2020, 19(1): 31-41 DOI:10.2478/bgeo- 2020-0008 Ghadi Younis: 3D Modelling of Earth Kinematics in Palestine for GNSS and Geodetic Time-Dependent Positioning. International Journal of Recent Technology and Engineering 09/2019, 8(3):6034-6039 DOI:10.35940/ijrte.C5577.098319 Ghadi Younis: The Integration of GNSS/Leveling Data with Global Geopotential Models to Define the Height Reference System of Palestine. ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING 07/2018; 43(7):3639–3645., DOI:10.1007/s13369-017-2912-5 Ghadi Younis: Practical method to solve large least squares problems using Cholesky decomposition. Geodesy and Cartography 07/2015; 41(3):113-118., 			
Publications	 JOURNAL ARTICLES Ghadi Younis: The Effect of Using Multiple Coordinate Systems and Datum Transformations on the Calculated Coordinates in Palestine. Bulletin of Geography: Physical Geography Series 12/2020, 19(1): 31-41 DOI:10.2478/bgeo- 2020-0008 Ghadi Younis: 3D Modelling of Earth Kinematics in Palestine for GNSS and Geodetic Time-Dependent Positioning. International Journal of Recent Technology and Engineering 09/2019, 8(3):6034-6039 DOI:10.35940/ijrte.C5577.098319 Ghadi Younis: The Integration of GNSS/Leveling Data with Global Geopotential Models to Define the Height Reference System of Palestine. ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING 07/2018; 43(7):3639–3645., DOI:10.1007/s13369-017-2912-5 Ghadi Younis: Practical method to solve large least squares problems using Cholesky decomposition. Geodesy and Cartography 07/2015; 41(3):113-118., DOI:10.3846/20296991.2015.1086118 Ghadi Younis: Local earth gravity/potential modeling using ASCH. Arabian Journal of 			

Harmonic Model. Arabian Journal of Geosciences 02/2013; 6(2):375–381., DOI:10.1007/s12517-011-0352-1

- Jäger R, Kaminskis J, Strauhmanis J, Younis G: *Determination of Quasi-geoid as Height Component of the Geodetic Infrastructure for GNSS-Positioning Services in the Baltic States*. Latvian Journal of Physics and Technical Sciences 01/2012; 49(3).
- Reiner Jäger, Ghadi Younis, Simone Kälber: The New RTCM 3.1 Transformation Messages – Declaration, Generation from Reference Transformations and Implementation as a Server-Client Concept for GNSS-Services. Bollettino di Geodesia et Scienze Affini 05/2010; 69(2-3):267-297.

CONFERENCE PROCEEDINGS

- Ghadi Younis: The Differences Between Land Surveyed Coordinates and the GIS Applied Coordinates in Palestine. GIS Day 2021 Palestine, Hebron University, Hebron, Palestine; 11/2021
- Ghadi Younis: *Finite Element Method for Precise Geoid Modeling for GNSS Positioning in Palestine*. 2nd International Conference on Civil Engineering (ICCE) - Palestine, Bethlehem, Palestine; 11/2019
- Ghadi Younis: *The use of Smart Phones for solving Mathematical Problems for Engineering Students*. First National Conference in Teaching and Learning, Hebron, Palestine; 12/2014
- V Chiriac, L Nistor-Lopatenco, V Grama, A Iacovlev, R Jager, P Spohn, G Younis: *Development of new geodetic infrastructure in Republic of Moldova*. EUREF Symposia 2011, Chisinau, Moldova; 05/2011

THESIS

- Ghadi Younis: *Regional Gravity Field Modeling with Adjusted Spherical Cap Harmonics in an Integrated Approach*. 01/2013, Degree: PhD, Supervisor: Matthias Becker, Reiner Jäger
- Ghadi Younis: Further development of the L2/ L1-norm GOCA Kalman-filtering DLL and extension to the computation and visualization of variance estimations and probability and forecasting states. 07/2006, Degree: Master of Science, Supervisor: Reiner Jäger, DOI:10.13140/RG.2.2.24581.96489
- Ghadi Younis, Mohammed Tbeisheh: Geo-map Calculator. 01/2003, Degree: Bachelor of Engineering, Supervisor: MSc. Kamal Ghatasha, DOI:10.13140/RG.2.2.20807.09127

Memberships	• Nov.2022-Now: Geodetic Advisor for Chairman (Minister) of Palestinian Land Authority.			
	International GNSS Service: Associate Member			
	• Member of the administrative board of Union of TEACHERS AND			
	EMPLOYEES OF UNIVERSITIES AND PRIVATE INSTITUTES : Palestine Polytechnic University - Chapter			
	Jordanian Engineers Association			
	• Member of the administrative board of the Society of Palestinian Survey			
	Engineers			
	Palestinian Surveyors Association			
	 Palestinian Spatial Data Infrastructures Project- Geodetic Committee 			
Scholarships	 <u>2004-2006</u>: <i>DAAD</i> (German Academic Exchange Service) - Master's degree. 2008-2013: <i>DAAD</i> to complete the PhD. Studies in TU-Darmstadt. 			

Computer skills	 DFHRS : GOCA : CoPaG and CoPaGAxs WTrans : Trimble Bussiness Centration Leica Geo Office: Leica Infinity ArcGIS 10.8 : ArcGIS Pro : QGIS ERDAS/LPS/StereoAnation Photomodeller – scannet AgiSoft-PhotoScan/Mett AutoCAD/ Autodesk Cit Office : 2003 – 2016 : W 	Experienced re : Very good Very good Experienced Very good Experienced alyst : Very good r : Very good r : Very good	www.dfhbf.de www.goca.info www.geozilla.de www.geozilla.de
Programming	 Visual C++ : Visual Basic : Maple : 	good very good very good	
Languages	 English : German : Arabic : 	very good good mother language	

