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| **Dr. Ghadi Younis**  **(PhD)**  Assistant professor | | Palestine Polytechnic University  College of Eng. /Civil & Arch. Eng. Dept.  Wad-Alharia  Hebron  Westbank- Palestine  P.O.BOX: 198  Mobile: 00972 (0) 598525496  Email: [ghadi@ppu.edu](mailto:ghadi@ppu.edu)  web: [staff.ppu.edu/ghadi](http://staff.ppu.edu/ghadi) |  |
| **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 2013* | **Technische Universität Darmstadt**  PhD, Geodesy , Darmstadt, Germany | | *Oct 2004 – Jul 2006* | **Karlsruhe University of Applied Sciences**  MSc., Geomatics, Karlsruhe, Germany | | *Sep 1998 – Aug 2003* | **Palestine Polytechnic University**  B.Eng, surveying and Geomatics Engineering, Hebron, Palestine | | *Sep 1997 – Jul 1998* | **Jenin Secondary Boys School**  Secondary School, Scientific Branch, Hebron, West Bank, Palestine | | | |
| **Professional Experience** | * ***Licensed Land Surveyor***, since 2007. * *2003-2004:* ***Teaching assistant for Surveying and Geomatics*** Eng at PPU, discussions, and Labs: Photogrammetry, Geodesy, and Adjustment. * 2003: ***GIS and Cartography***, Electricity Network Map of Al-Fawwar Camp. * *2006-2008:* ***Lecturer for Surveying and Geomatics*** Eng at PPU, teaching: Photogrammetry1, Photogrammetry2, digital Photogrammetry, Surveying, GPS, GIS, Geodesy and Adjustment. * *2009 – 2011:* External ***Physical Geodesy*** Teacher for Master of Geomatics Students. * *2010:* taking apart in the project: Development of a ***High capacity Real-Time GNSS*** Positioning Service for Moldova (MOLDPOS). [www.moldpos.eu](http://www.moldpos.eu) . * 2010: 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:* D***evelopment of DFHRS*** at the Hochschule Karlsruhe. [www.dfhbf.de](http://www.dfhbf.de) . * 2013-Now: ***Lecturer for Surveying and Geomatics*** Eng at PPU, teaching: Photogrammetry1/2, digital Photogrammetry, Surveying, GIS, GNSS/Geodesy and Adjustment. * 2013: GIS trainer, Advanced GIS for Cadastral Surveys for the Land Surveying Department. * 2013-2014 : Project Controller , ***Cadastral Surveys*** of more than 7,500 Donums in Dura city for the Land Surveying Department. * 2015: Geometric Correction and Image Processing ***of Photogramoteric Orthophoto of Hebron*** City and Surrounding Area (30x30 km). Positional accuracy transformed from 5m to 0.3m. * 2016: Geometric Correction and Image Processing ***of Photogramoteric Orthophoto of AL-Dahriyya*** City (10x10 km). Positional accuracy transformed from 5m to 0.3m. * 2017: (TESLA-project by Erasmus+): Virtual Reality application in higher education in Palestine (GIS and Geography). * *2018: (GNSS Service Network – Geodetic)* : design of ***GNSS CORS network*** in Palestine for geodetic infrastructures including ITRF connection and Orbit transformations (GROMA-GeoSystems). * *2019*: **Real Estate Evaluator** | | |
| **Teaching Experience** | * ***Land Surveying courses (PPU):* Surveying I & II , advanced Plan Surveying** * ***Geodesy courses :* Geodesy (PPU) , Physical Geodesy (HS-Karlsruhe) , gravimetry (HS-Karlsruhe)** * ***Adjustment* : Theory of Errors I & II (PPU), Adjustment & Statistics (HS-Karlsruhe)** * **GNSS (PPU)** * ***Photogrammetry (PPU):* Photogrammetry I & II , Digital Photogrammetry** * ***Scientific Research Methods (PPU)*** | | |
| **Publications** | [www.researchgate.net/profile/Ghadi\_Younis](file:///F:\Desktop-Nov-2018-office\www.researchgate.net\profile\Ghadi_Younis)  <https://scholar.google.com/citations?user=7O5dRs8AAAAJ&hl=en>  **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 Geosciences 01/2015; 8(10):8681–8685., DOI:10.1007/s12517-014-1767-2  Jānis Kaminskis, Inese Janpaule, Reiner Jaeger, Ghadi Younis, Ansis Zarins: ***DFHRS-based computation of quasi-geoid of Latvia***. Geodesy and Cartography 03/2013; 39(1):11 - 17., DOI:10.3846/20296991.2013.788827  Ghadi K. A. Younis, Reiner Jäger, Matthias Becker: ***Transformation of Global Spherical Harmonic Models of the Gravity Field to a Local Adjusted Spherical Cap Harmonic Mode****l*. 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: ***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** | * **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** | * 2004-2006: ***DAAD*** (German Academic Exchange Service) - Master's degree. * 2008-2013: ***DAAD*** to complete the PhD. Studies in TU-Darmstadt. | | |
| **Computer skills** | * DFHRS : Experienced [www.dfhbf.de](http://www.dfhbf.de) * GOCA : Very good [www.goca.info](http://www.goca.info) * CoPaG and CoPaGAxs : Very good [www.geozilla.de](http://www.geozilla.de) * WTrans : Experienced [www.geozilla.de](http://www.geozilla.de) * Trimble Bussiness Centre : Very good * Leica Geo Office: Very good * ArcGIS 10.8 : Experienced * QGIS Experienced * ERDAS/LPS/StereoAnalyst : Very good * Photomodeller – scanner : Very good * AgiSoft-PhotoScan/MetaShape: Experienced * AutoCAD/ Autodesk Civil 3D : Very good * Office : 2003 – 2016 : WORD , EXCEL , POWERPOINT | | |
| **Programming** | * Visual C++ : good * Visual C++ Visual Basic : very good * Maple : very good | | |
| **Languages** | * ***English*** : very good * ***German*** : good * ***Arabic*** : mother language | | |