

**CURRICULUM VITAE
OF
DR. SHIMON WDOWINSKI
DEPARTMENT OF EARTH AND ENVIRONMENT**

EDUCATION

<i>Degree</i>	<i>Institution</i>	<i>Field</i>	<i>Dates</i>
Ph.D.	Harvard University	Geophysics	06/1990
M.S.	Harvard University	Engineering Sci.	06/1987
M.Sc.	Hebrew University	Geology	06/1985
B.Sc.	Hebrew University	Earth Sciences	06/1984

FULL-TIME ACADEMIC EXPERIENCE

<i>Institution</i>	<i>Rank</i>	<i>Field</i>	<i>Dates (Month & Year)</i>
FIU	Professor	Earth Sci.	08/2019-present
FIU	Associate Professor	Earth Sci.	08/2016-07/2019
U. of Miami	Research Professor	Geosciences	06/2015-07/2016
U. of Miami	Research Associate Professor	Geosciences	01/2005-05/2015
Tel Aviv U.	Associate Professor	Geophysics	10/1998-12/2004
Tel Aviv U.	Assistant Professor	Geophysics	10/1994-09/1998
SIO, UCSD	Postdoc Researcher	Geodesy	10/1990-03/1993
Harvard U.	Postdoc Researcher	Geophysics	07/1990-09/1990

PART-TIME ACADEMIC EXPERIENCE

<i>Institution</i>	<i>Rank</i>	<i>Field</i>	<i>Dates (Month & Year)</i>
U. of Miami	Post-doc Associate	Geosciences	09/2001-12/2004
U. of Miami	Adjunct Associate Professor	Geosciences	10/2000-08/2001
U. of Miami	Adjunct Assistant Professor	Geosciences	10/1998-09/2000

NON-ACADEMIC EXPERIENCE

<i>Place of Employment</i>	<i>Title</i>	<i>Dates</i>
Geological Survey of Israel	Researcher	04/1993-09/1994
Geological Survey of Israel	Geologist	06/1984-05/1985

EMPLOYMENT RECORD AT FIU

<i>Rank</i>	<i>Dates</i>
Professor	08/2019-present

Publications:

Total publications – Peer-reviewed paper - 102; Chapters in books - 4; Proceedings - 22; Report – 11;

10 Recent publications

- Havazli E, Wdowinski S. Detection Threshold Estimates for InSAR Time Series: A Simulation of Tropospheric Delay Approach. *Sensors*. 2021; 21(4):1124. <https://doi.org/10.3390/s21041124>
- Orhan, Osman; Oliver-Cabrera, Talib; Wdowinski, Shimon; Yalvac, Sefa; Yakar, Murat. 2021. "Land Subsidence and Its Relations with Sinkhole Activity in Karapınar Region, Turkey: A Multi-Sensor InSAR Time Series Study" *Sensors* 21, no. 3: 774. <https://doi.org/10.3390/s21030774>.
- Fiaschi, S. and S. Wdowinski, (2020). Local land subsidence in Miami Beach (FL) and Norfolk (VA) and its contribution to flooding hazard in coastal communities along the US Atlantic coast. *Ocean & Coastal Management*, 187, 105078.
- Bock, Y. and S. Wdowinski (2020), GNSS Geodesy in Geophysics, Natural Hazards, Climate, and the Environment, in Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications, *IEEE*, 2021, 741-820, doi: 10.1002/9781119458449.ch28.
- Govorčin, M., S. Wdowinski, B. Matoš, and G. J. Funning, (2020), Geodetic source modeling of the 2019, M_w 6.3 Durrës, Albania earthquake: partial rupture of a blind reverse fault, *Geophysical research letters*, 47, e2020GL088990. <https://doi.org/10.1029/2020GL088990>.
- Li, S., S. Wdowinski, Y-J Hsu, and B. H. Shyu, (2020), Earthquake Interactions in Central Taiwan: Probing Coulomb stress effects due to $M_L \geq 5.5$ earthquakes from 1900 to 2017. *Journal of Geophysical Research: Solid Earth*, 125, e2019JB019010. <https://doi.org/10.1029/2019JB019010>
- Solano Rojas, D.E., S. Wdowinski, E. Cabral-Cano, and B. Osmanoglu, (2020) Detecting differential ground displacements of civil structures in Fast Subsiding Metropolitans with Interferometric SAR and BandPass Filtering, *Scientific Reports*, 10(1), 1-14.
- Liao, H., S. Wdowinski, and S. Li, Regional-scale hydrological monitoring of wetlands with Sentinel-1 InSAR Observations: Case Study of the South Florida Everglades, (2020), *Remote Sensing for Environment*, 251, <https://doi.org/10.1016/j.rse.2020.112051>
- Govorčin, M., B. Pribičević, and S. Wdowinski, S. (2019). Surface Deformation Analysis of the Wider Zagreb Area (Croatia) with Focus on the Kašina Fault, Investigated with Small Baseline InSAR Observations. *Sensors*, 19(22), 4857.
- Brothelande, E., Amelung, F., Yunjun, Z., and Wdowinski, S. (2018) Geodetic evidence for interconnectivity between Aira and Kirishima magmatic systems, Japan. *Scientific reports*, 8(1), 9811, 2018

FUNDED RESEARCH (past 8 years)

Gaiser, E. et al., “FCE IV: Coastal Oligotrophic Ecosystems Research”, NSF, 12/01/2020-11/30/2024, \$4,750,800.

Wdowinski, S., “Assessing Forest Structure Status of Mangrove Forests in Everglades National Park Following Hurricane Irma”, FIU ForEverglades Student Research Fund, 12/01/2019-11/30/2020, \$20,500.

Wdowinski, S., “Coastal flooding hazard in Florida: Evaluating the contribution of local subsidence”, Florida Office of Insurance Regulation, 07/01/2018-06/30/2022, \$327,227.

Price, R. et al., “Scholarships for a Future Generation of Geoscientists at FIU”, National Science Foundation, 07/01/2018-06/30/2023, \$1,000,000.

Gann, D., K. Zhang, P. Olivas, S. Wdowinski, and J. Richards, “Optimization of LiDAR Data Processing Algorithms for Wetland Graminoid Marsh and Prairie Vegetation”, National Park Service, 04/01/2018-03/31/2020, \$198,708 [CoPI portion: \$9,492].

Wdowinski, S. and S. Kruse, Supplementary funding for the project “Collaborative research: Detection and mechanics of sinkhole activities in central Florida”, NSF, 11/08/2017-11/07/2018, \$11,444.

Frey Mueller, J. and S. Wdowinski, Workshop funding for organizing the workshop “Hydro-Geodesy: Hydrological applications of geodetic techniques”, Earthscope (NSF), 09/01/2017-03/31/2018, \$8,000.

Wdowinski, S., K. Larson, A. Borsa, and D. Cayan, Workshop funding for organizing the workshop “Hydro-Geodesy: Hydrological applications of geodetic techniques”, NASA, 10/15/2016-11/30/2017, \$12,000.

Wdowinski, S., Z. Peng, and K. Ferrier, “Cascading hazards: Understanding triggering relations between wet tropical cyclones, landslides, and earthquakes”, NASA, 06/27/2017-06/26/2020, \$1,197,930.

Wdowinski, S. and S. Kruse, “Collaborative research: Detection and mechanics of sinkhole activities in central Florida”, NSF, 09/01/2016-08/30/2018, \$235,000.

Wdowinski, S. and S. Kruse, “Space based detection of sinkhole activity in central Florida”, NSF, 09/01/2014-08/30/2016, \$90,000.

Erickson, C.L., S. Wdowinski, and J. Thayn, “Flood Regimes and Carbon Cycling in Anthropogenic Landscapes of the Bolivian Amazon”, NASA, 09/01/2013-08/31/2017, \$290,745 [sub-award from U. Penn: \$191,009].