

**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 - 107; Chapters in books - 4; Proceedings - 22; Report – 11;

10 Recent publications

- Parkinson, R., and S. Wdowinski, (2022) Accelerating sea-level rise and the fate of mangrove plant communities in South Florida, U.S.A., *Geomorphology*, 108329.
- Zhang, B., S. Wdowinski, D., Gann, S-H Hong, and J. Sah (2022) Spatiotemporal variations of wetland scattering: The role of water depth and vegetation characteristics in Sentinel-1 SAR dual-polarization amplitude observations, *Remote Sensing of Environment*, 270, 112864.
- Oliver-Cabrera, T., S. Wdowinski, and S. Kruse, (2022), Detection of Sinkhole Activity in Central Florida Using InSAR Time Series Observations, *Remote Sensing of Environment*, <https://doi.org/10.1016/j.rse.2021.112793>.
- Zhai Q., Z. Peng, L. Y. Chuang, Y-M Wu, Y-J Hsu, and S. Wdowinski, (2021), Investigating wet typhoon's impacts on microseismicity: a case study of the 2009 typhoon Morakot in Taiwan based on a template matching catalog, accepted, *J. Geophys. Res.*, DOI: 10.1029/2021JB023026.
- Robinson, T., B. Rodgers, T. Oliver-Cabrera, C. Downs, S. Kruse, S. Wdowinski, S. Jazayeri, S. Esmaeili, H. Kiflu, (2021), Complex relationships between surface topography, ground motion, and cover sediments in covered karst, west-central Florida, USA, *Geomorphology*, 392, 107927.
- Restrepo-Ángel, J. D., Mora-Páez, H., Díaz, F., Govorcín, M., Wdowinski, S., Giraldo-Londoño, L., ... & Duque-Trujillo, J. F. (2021). Coastal subsidence increases vulnerability to sea level rise over twenty first century in Cartagena, Caribbean Colombia. *Scientific reports*, 11(1), 1-13.
- 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.
- Govorčin, M., S. Wdowinski, B. Matoš, and G. J. Funning, (2020), Geodetic source modeling of the 2019, Mw 6.3 Durrës, Albania earthquake: partial rupture of a blind reverse fault, *Geophysical research letters*, 47, e2020GL088990. <https://doi.org/10.1029/2020GL088990>.

FUNDED RESEARCH (past 6 years)

Total funding: \$8,961,747

Total PI funding: \$3,004,239

Wdowinski, S., “Coastal vertical land motion and its implication to coastal flooding hazard assessments”, NASA, 01/20/2022-01/19/2024, \$601,615.

Wdowinski, S., “A multi-sensor monitoring system of surface water level changes in wetlands”, NASA, 05/04/2021-05/03/2023, \$598,523.

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.

Freymueller, 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.