

## Víctor Manuel Hernández Madrigal

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### Current Position

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#### 2007 to Nowaday - Research-professor

Instituto de Investigaciones en Ciencias de la Tierra  
Universidad Michoacana de San Nicolás de Hidalgo

### Education

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#### 2005 – 2006 Postdoc

Instituto de Investigaciones Geográficas  
Universidad Nacional Autónoma de México.

#### 2001-2005 PhD in Geography

Facultad de Filosofía y Letras  
Universidad Nacional Autónoma de México.

#### 1999 – 2001 Master of Science – MSc in Metallurgy and Science of Materials

Instituto de Investigaciones Metalúrgicas  
Universidad Michoacana de San Nicolás de Hidalgo

#### 1993 – 1998 Civil Engineer

Facultad de Ingeniería Civil  
Universidad Michoacana de San Nicolás de Hidalgo

### Publications

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Google Scholar: <https://scholar.google.es/citations?hl=es&user=X1Ekv-AAAAAJ>

Publications: 30

Citation: 242

h-Index: 9

i-10-Index: 9

1. Figueroa-Miranda S, **Hernández-Madrigal VM**, Tuxpan-Vargas J, Villaseñor-Reyes CI (2020). Evolution assessment of structurally-controlled differential subsidence using SBAS and PS interferometry in an emblematic case in Central Mexico. Eng Geol 279:105860. <https://doi.org/10.1016/j.enggeo.2020.105860>.
2. Equihua-Anguiano LN, Orozco Calderón M, **Hernández-Madrigal VM** (2020). Nomographs to obtain three dimensional (3D) elastic displacements for deep circular tunnels. Obras y Proyectos, Revista de Ingeniería Civil, n° 28, pp. 12-22.
3. Camacho Sanabria R, Camacho Sanabria JM, Balderas Plata MA, **Hernández Madrigal VM**. (2020). Cuantificación espacial del daño socioeconómico por subsidencia diferencial en Santa Ana Tlapaltitlán, Toluca, México. REDER, Revista de Estudios Latinoamericanos sobre Reducción del Riesgo de Desastres. N° 1, vol. 4, pp. 95-104.

4. Garduño Monroy VH, Figueroa Soto A, Magaña García N, Ruiz Figueroa A, **Hernández-Madriral VM**, Gómez Cortés J (2019). The Mitla Landslide, an Event That Changed the Fate of a Mixteco/Zapoteco Civilization in Mesoamerica. *International Journal of Geophysics*. N°. 1, pp. 1-14.
5. Figueroa-Miranda S, Tuxpan-Vargas J, Ramos-Leal JA, **Hernández-Madriral VM**, Villaseñor- Reyes CI (2018). Land subsidence by groundwater over-exploitation from aquifers in tectonic valleys of Central Mexico: A review. *Eng Geol* 246:91–106. <https://doi.org/10.1016/j.enggeo.2018.09.023>.
6. Villaseñor-Reyes CI, Dávila-Harris P, **Hernández-Madriral VM**, Figueroa-Miranda S (2018). Deep-seated gravitational slope deformations triggered by extreme rainfall and agricultural practices (eastern Michoacan, Mexico). *Landslides* 15:1867–1879. <https://doi.org/10.1007/s10346-018-1031-z>.
7. Flores-Lázaro N, Saldivar-Valdéz A., **Hernández-Madriral VM**, Pérez-Veyna O (2017). Valoración del agua de riego agrícola en el Valle de Zamora, Michoacán, México. *Revista Mexicana de Ciencias Agrícolas*, n° 4, vol. 8, pp. 811-823.
8. Alanís N, **Hernández-Madriral VM**, Cerdà A, Muñoz-Rojas M, Zavala LM, Jordán A. (2016). Spatial gradients of intensity and persistence of soil water repellency under different forest types in central Mexico. *Land Degradation & Development*, n° 1, vol. 28, pp. 317-327. <https://doi.org/10.1002/ldr.2544>
9. **Hernández-Madriral VM**, Muñiz JA, Garduño VH, Flores-Lázaro N, Figueroa-Miranda S. (2014). Depreciation factor equation to evaluate the economic losses from ground failure due to subsidence related to groundwater withdrawal. *Natural Science*, vol. 6, n° 3. DOI:10.4236/ns.2014.63015

#### Distinctions

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1. Founding President of the Mexican Association of Hydrogeological Risks (AMERHID)
2. Founding of the IAEG Mexican National Group
3. The main of Instituto de Investigaciones en Ciencias de la Tierra-UMSNH (2018-2022)
4. National System of Researchers, level 1 (SNI-CONACYT), period 2022-2024.