

Curriculum Vitae

Edgar Dolores-Tesillos

🏡 University of Bern, Institute of Geography, Hallerstrasse 12, 3012 Bern, Switzerland

✉️ edgar.dolores@giub.unibe.ch & edgar.dot.01@gmail.com

🐦 [@edgardt](https://twitter.com/edgardt) ☎ +41 076 464 68 49



Education

- 2018 – 2022 **PhD in Meteorology**
*Institute of Meteorology
Free University of Berlin*
Date of graduation: October 12, 2022.
- 2015 – 2018 **M. Sc. in Earth Sciences**
Universidad Nacional Autónoma de México
Date of graduation: January 9, 2018.
- 2009 – 2014 **B. Sc. in Atmospheric Sciences**
Universidad Veracruzana
Date of graduation: March 10, 2014.

Professional experience

- 2023 – today **Postdoctoral Researcher**
*Institute of Geography
University of Bern, Switzerland*
- 2014 – 2014 **Research Intern**
*Instituto de Investigaciones Electricas (IIE, now INEEL)
Cuernavaca, Morelos, Mexico*

Teaching

- Summer 2021, 2022 Teaching assistant, Free University of Berlin
Synoptische Meteorologie (Seminar PC I to B.Sc.)
- Winter 2020, 2021 Teaching assistant, Free University of Berlin
Synoptische Meteorologie (Seminar PC II to B.Sc.)
- Summer 2020, 2021, 2022 Teaching assistant, Free University of Berlin
Beobachtungspraktikum (Seminar to B.Sc.)
- Winter 2018, 2019 Teaching assistant, Free University of Berlin
Klimavariabilität und -Modelle (Seminar to M.Sc.)
- Summer 2019 Teaching assistant, Free University of Berlin
Modelle für Wetter und Umwelt (Seminar to M.Sc.)

Professional experience (continued)

Courses and training

- Summer School on effective High Performance Computer (HPC) for climate and weather. eciwace. Online. August 23-27, 2021.

Research Publications

- Dolores-Tesillos, E., Teubler, F., and Pfahl, S.: Future changes in North Atlantic winter cyclones in CESM-LE – Part 1: Cyclone intensity, potential vorticity anomalies, and horizontal wind speed, *Weather Clim. Dynam.*, 3, 429–448, <https://doi.org/10.5194/wcd-3-429-2022>, 2022.
- Edgar Dolores, Ernesto Caetano, Luis Clemente López-Bravo & Alan Calheiros (2019). Influence of soil moisture on mesoscale convective initiation in central Mexico, *European Journal of Remote Sensing*, 52:1, 640-652, DOI:10.1080/22797254.2019.1700397

Projects and talks

Technical report

- “*Implementación del modelo Regional Atmospheric Modeling System (RAMS) para la zona costera central del Golfo de México*”. Juan Matías Méndez Pérez y Edgar Dolores Tesillos. Consejo Nacional de Ciencia y Tecnología. 25 pp. March 2015.
- “*Configuración del modelo Regional Atmospheric Modeling System (RAMS) para la generación de series de datos de viento en el Istmo de Tehuantepec*”. Edgar Dolores Tesillos, Ubaldo Miranda Miranda y Ramón Lira Argüello. Instituto de Investigaciones Eléctricas. 72 pp. November 2014.

Talks (select)

- “*Future changes in North Atlantic winter cyclone dynamics in CESM-LENS*”. Dolores Tesillos, E., Pfahl, S., and Teubler, F. Stormtracks2022 : Midlatitude storm-tracks workshop. 29 May-3 Jun 2022, Saint-Pierre-d’Oléron, France.
- “*Future changes in North Atlantic winter cyclones in CESM-LENS: cyclone intensity and horizontal wind speed* ”. Dolores Tesillos, E., Pfahl, S., and Teubler, F. EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-8926, <https://doi.org/10.5194/egusphere-egu21-8926>, 2021.
- “*Influencia de la humedad del suelo en la iniciación convectiva en regiones llanas de México*” (invited talk). Virtual seminar, Licenciatura en Ciencias Atmosféricas, Universidad Veracruzana, September 2021.
- “*A Composite Perspective on Precipitation and Intensity Changes of Extratropical Cyclones in a Warming Climate* ”. Edgar Dolores-Tesillos, Stephan Pfahl and Lisa Schielicke. Poster. 19th Cyclone Workshop. Seeon, Bavaria, Germany. From 29 September to 4 October 2019.
- “*Detection of soil moisture impact in convective initiation in the central region of Mexico*”. Edgar Dolores and Ernesto Caetano. Poster. General Assembly 2017 of the European Geosciences Union. Vienna, Austria. From 23 to 28 April 2017.

Projects and talks (continued)

Thesis

- Dolores-Tesillos E., 2022. “*Changes in Extratropical Cyclone Dynamics in the North Atlantic in a Warming Climate*”. **PhD in Meteorology**. Freie Universität Berlin.
- Dolores-Tesillos E., 2018. “*Detección del impacto de la humedad del suelo en la iniciación convectiva en México*”. **M. Sc. in Earth Sciences**. Universidad Nacional Autónoma de México.
- Dolores-Tesillos E., 2014. “*Perfil termodinámico característico para un evento de Norte en el Puerto de Veracruz*”. **B. Sc. in Atmospheric Sciences**. Universidad Veracruzana.

Thesis advisor

- Rosiles Barrios Linda. “*Caracterización climatológica en superficie y en altura de eventos de “surada” del Golfo de Tehuantepec al centro del estado de Veracruz*”. **Licenciatura en Ciencias Atmosféricas**. Universidad Veracruzana. (03.02.2021).
- Frederike Monte. “*Correlation of Cyclones and Precipitation Extremes - A Comparison Study of Present and Future Events based on CESM Large Ensemble Data*”. **B. Sc. in Meteorology**. Fachbereich Geowissenschaften. Free University of Berlin. (19.09.2019).

Skills

Coding

- Python, Matlab, GrADs, Fortran 77/90, Unix/Linux Shell and L^AT_EX.

Software

- NinJo, ArcGIS 10.5 and Microsoft Office.

Languages

- Spanish.
- English.
- German (Intermediate).

Atmospheric Models

- CESM, WRF, RAMS and MM5.

Areas of interest

Atmospheric Dynamics

Atmospheric Modeling

Renewable Energies

Clouds and Convection

Physical and Applied Climatology