Raúl Fernando Méndez Turrubiates

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Working Experience

- **Servicio Meteorológico Nacional**, (Apr. 2015 - Aug 2015),

  External Consultant

  - Design of a regional climate model experiment for México and the Caribbean.
  - Create simulations for a 3 months periods forecast.
  - Automation of the regional climate experiment.

- **Consorcio de Investigación del Golfo de México (CIGoM)**. (Oct. 2018 - Present).

  Specialized Technician

  - Automation of WRF-CHEM runs for a operational forecast.
  - Clean up and restructure of observational data.
  - Install and setup of HWRF runs.

Education - Degrees

- **M.Sc. Physical Oceanography**, (2015 - 2018),

  Centro de Investigación Científica Superior de Ensenada (CICESE)

  - High Resolution (sub 1 km) weather forecasting enhanced with ensembles.

- **B.S. Atmospheric Science**, (2013 - 2015)

  Universidad Veracruzana

  - Implementation and use of a RegCM model for climate studies in Mexico.

MOOCs

- Docker Mastery: with Kubernetes +Swarm from a Docker Captain [`iconv`]: https://www.gnu.org/software/libic

Distinction & Awards

- Scholarship CEMIE-Oceano (2018).
- Best presentation for a master student (Atmosphere) Reunión Anual Unión Geofísica (RAUGM). (2017)
- Scholarship CONACYT programa Nacional de Posgrados de Calidad (PNPC). (2015 - 2017)
- Scholarship PROMEP para estudios de posgrado de alta calidad. (2014 - 2015)

Technical

- **Languages**: Python, bash, GrADS, NCL, nco, cdo, Fortran
- **Numerical models**: RegCM4, WRF, WRF-CHEM, WRFDA, HWRF
- **Operating Systems**: GNU/Linux, Mac OS, Windows
- **Miscellaneous**: Experience with cluster ambients, compile and setup (make, qmake) numerical models (listed above), use of output data of numerical models (NetCDF, GRIB), version control (git, svn), trac
- **Others**: LaTeX, Markdown, Docker, Docker-compose

Publications

- Mendez Turrubiates, Gross, Magar; **Local Quantitative Precipitation Forecast with minimal data requirement - an ensemble approach**; Weather and Forecasting; doi: https://doi.org/10.1175/WAF-D-19-0077.1

International Workshops

- **Second Workshop on Climate Change, Variability and Modeling over Central America and Mexico**,ICTP, San José, Costa Rica, 14 - 18 Nov 2016

Conference Presentations

Oral Presentations

- **RAUGM (Nov. 2017)**, Cuantificación de la incertidumbre del pronóstico de la precipitación en modelos meteorológicos de mesoescala para la ciudad de Ensenada.
- **OMMAC (Oct. 2014)**, Implementación y uso de un modelo RegCM4 para estudios de clima regional en México.

Posters Presentations

- **CICESE (Aug. 2017)**, Predicción del tiempo de sub mesoescala, mejorado con ensambles.
- **RAUGM (Oct. 2016)**, Predicción del tiempo de sub mesoescala, mejorado con ensambles.

Nationality

- **Mexican**

Languages

- **Spanish**, Mother tongue
- **English**, Intermediate
  - 83 score TOEFL IBT