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Julio Cesar Enciso Alva
B.S. Applied Mathematics

Education

2012 - 2017, Universidad Autónoma del Estado de Hidalgo (UAEH)
Bachelor Degree. Major in Applied Mathematics, minor in Biology

2009 - 2012, Preparatoria 3, UAEH
Bachillerato General [High school]

Publications

- Rosales-Lagarde, A., Rodríguez-Torres, E. E., Itzá-Ortíz, B. A., Miramontes, P., Vázquez-Tagle Gallegos, G., Enciso-Alva, J. C., García Muñoz, V., Cubero-Rego, L., Pineda-Sánchez, E., Martínez Alcalá, C. y López-Noguerola, J. S.: *The Color of Noise and Weak Stationarity at the NREM to REM sleep transition in Mild Cognitive Impaired subjects*. Frontiers, (in press).
- Rosales-Lagarde, A., Rodríguez-Torres, E., Enciso-Alva, J., Martínez-Alcalá, C., Vázquez-Tagle, G., Tetlalmatzi-Montiel, M., Viveros, J. y López-Noguerola, J. S.: *Stationarity During REM Sleep in Old Adults*. In Alzheimer's & Dementia: 2017 Abstract Supplement, vol. 13, P723–P724. Elsevier, 2017. doi: 10.1016/j.jalz.2017.06.937

Conferences and additional courses

October 2017, *Taller Multidisciplinario* [Multidisciplinary workshop]
Attendant. National multidisciplinary event focused on te study of central nervous system (brain and spinal chord) by different perspectives: clinical, experimental and data science; housed on Cocoyoc, Morelos.

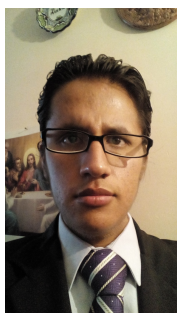**July 2017, *Neurociencias en Julio* [Neurosciences on July]**
Poster presentation of further results of the analysis of polysomnography signals using weak-stationarity tests; also attendance to pre-conference courses. National multidisciplinary event focused on areas related to Psychology and Neurology, housed at Guadalajara University in Jalisco.

July 2017, *Neuroscience Short Course*
Lecturer for the module '*Mathematics and Neuroscience*' about electrophysiological signals processing. Local interdisciplinary event for academics and students on the areas of Gerontology, Psychology and Applied Mathematics, at UAEH.

October 2016, *49th National Conference of the Mexican Mathematical Society (SMM)*
Preliminary results were presented from the analysis of polysomnography records, under the title '*Aplicación de pruebas de estacionariedad débil en series electrofisiológicas*' [The use of weak stationarity tests on electrophysiological series]. Housed in Aguascalientes, Aguascalientes.

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September 2015, *15th ENOAN* [National Workshop for Optimization and Numerical Analysis]
Attendant. National multidisciplinary event focused on modeling, numerical methods, scientific cumputing, and mainly applications on sciene and engineering. Housed at Autonomous University of Mexico (UAM).

Summer 2015, *Research Experience for Undergraduates*
Particiant on the REU program on the project 'Modelation of vehicular flow using Burgers equation' about using the referred Partial Differential Equation –which was solved numerically– to model vehicle flow on a road at Ventura County. Housed at California State University, Channel Islands.

Abilities

Computer
- Fluid use of Windows and Linux
- Domain of Microsoft Office, Libre Office, LaTeX
- Dropbox, Google Drive, git
- Geogebra, Cabri, PSeInt
- Programming languages: C/C++, python, R, Matlab/Octave
- Basic experience on parallel computing

Languages
- English (B2, TOEFL)
- Spanish (native)
- German (B1, Zertifikat in Deutsch)