

ALEXANDER CALZADILLA MENDEZ

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SUMMARY

Experience in statistical analysis, data modeling, forecast and nonlinear time series analysis. Provide practical innovative solutions to problems using analytics. Expertise includes:

- Data reduction and Analysis
- Techniques of Advanced Numerical Analysis
- Advanced Analytics and Estimation Theory
- Model and algorithm development
- Programing and IT skills
- Strategic problem solving
- Advanced visualization and data exploitation
- Scientific liaison
- Presentation skills and teaching

EDUCATION

- ❖ Institute of Geophysics and Astronomy, of the Ministry of Science, Technology and Environment, Havana, Cuba, PhD. in Geophysics (Space Geophysics), 2006
- ❖ Faculty of Physics, University of Havana, Havana, Cuba, (1990-1994), Bachelor in Physics, 1994
- Verified Certificate Course, offered by Johns Hopkins University registered on:
 - *The Data Scientist's Toolbox* (<https://www.coursera.org/records/36eXFQc3cUfQUywb>)
 - *R Programming* (<https://www.coursera.org/records/UA2HcBmYjVtENwNU>)
 - *Getting and Cleaning Data* (<https://www.coursera.org/records/WXa2xmn2FvngFsJp>)
 - *Exploratory Data Analysis* (<https://www.coursera.org/records/mKd5NZWYmX7SRzvK>)
 - *Reproducible Research* (<https://www.coursera.org/records/XN8JWzdk6H33zcDM>)
 - *Statistical Inference* (<https://www.coursera.org/records/xm5tw9XteSrQbv3r>)
 - *Regression Models* (<https://www.coursera.org/records/4rm7wbYV9p5enZpz>)
 - *Practical Machine Learning* (<https://www.coursera.org/records/x8qfWn2Ez9B3DSmj>)
 - *Developing Data Products* (<https://www.coursera.org/records/W68DMegSLVQQsdRJ>)

SKILLS

- Great knowledge for *Programming* and work in *Statistical Data Analysis* for research using: MatLab, IDL, Wolfram Mathematica, STATISTICA, R, RapidMiner, KNime, SPSS, SQL Server 2008, Fortran, C, Python, Crystal Reports XI, Microsoft Navision, knowledge of Google Analytics, and ability to learn for working with any other software for data analysis or data base reports.
- Strong mathematical and analytical skills with the ability to extract relevant facts from large data sets.
- Proficient in Microsoft Office (Word, Advanced Excel (*pivot tables, macros*), Access, PowerPoint)
- Open mind to learn fast any technical requirement or methodology, in any field of work.
- Language: Fluency in Spanish, English and Italian.

EXPERIENCE

COMMUNITY HEALTH OF SOUTH FLORIDA, INC. (10300 S.W. 216th Street, Miami, FL 33190)

Financial Analyst

07/2015 – until present

- Great experience maintaining the integrity of the Revenue Schedule & Billing Schedule for Reports. i.e. Update report with new/expired grants; budget increases/decreases and monthly/quarterly billing detail, along with other pertinent information. Experience Preparing the Monthly Financial Report on Grants. Experience preparing budgets, budget narratives, and budget amendments on Excel spreadsheets. Working experience in bank account reconciliation using mathematical algorithm in Excel to detect inconsistencies in the General Ledger and Check Register from the comparison with the Bank Statement Reports..

Data Entry Analyst

- Data Entry, Report, Programming, Management and Administration of Data Bases at the Mental and Behavioral Health Department at CHI. Statistical Data Analysis by creating and using Advanced Excel and Statistical models, in accordance with HIPAA compliance.

INSTITUTE OF GEOPHYSICS AND ASTRONOMY (calle 212 # 2906 e/ 29 y 31, La Lisa) Havana City, Cuba

Head of Space Geophysics Department

09/2006 - 10/2012

- Head of Research Project and Research task on Ionosphere Physics, Geomagnetism and Space Weather.
- Manager for the operation of the Radar Monitoring Service of the Ionosphere and the Geomagnetic Field, to Modeling and Forecast for Short Wave Radio-propagation Conditions, solving technical and scientific problems associated.
- Since 2008 until 2012, Docent Coordinator for the Aerospace Studies Cathedra at the Superior Institute of Technologies and Applied Science (InSTECC) in Havana City, Cuba

Regular Researcher

09/1994 - 08/2006

- Responsible for Research Task using Mathematical Methods and Tools of *Non Linear Dynamics* for *Data Mining and Statistical Data Analysis and Modeling*, to study the Physical Process and Coupling Relations of the Solar Wind-Magnetosphere-Ionosphere System to Forecast its Dynamical Behavior.
- Characterization and Modeling of the Ionosphere during Quiet and Disturbed Geomagnetic conditions, to evaluate the local Space Weather conditions using *Multivariate Statistical Methods* and *Neural Network multilayer*.

PUBLICATION, CONFERENCES, AND PROFESSIONAL SERVICES

- Produced 27 scientific publications
- Presented 18 talks at numerous international conferences, 3 times a reviewer speaker and 4 times physics/space geophysicist colloquium speaker.
- Supervisor of 3 graduated students and 1 PhD student
- Worked 3 times as journal referee for “Advances in Space Research”, “Ciencias de la Tierra y el Espacio” and “Revista Cubana de Fisica”

AWARDS AND AFFILIATIONS

- ✓ Two times National Award of the Cuban Academy of Science. (2003 and 2008), and Several Awards by the Environmental Agency of the Ministry of Science, Technology and Environment in Havana, Cuba.(2003, 2004, 2008)
- ✓ Former Vice-president of the Cuban Physics Society, in the Science of the Earth and Space Section (2004 – 2014).
- ✓ Member of Latin-American Society of Space Geophysics