

César Soto Valero

Curriculum Vitae

Sagua St. 206, Santa Clara,
Villa Clara (Cuba)
☎ (+53) 53574879
☎ (+53) 42 223125
✉ cesarsotovalero@gmail.com



Researcher & Software Developer with 5 years of experience using Java and R. Experienced in the application of machine learning methods for solving real problems, mainly predictive and analytical problems.

Age

Current **28 years old**

Languages

Native **Spanish**
English **Professional working proficiency**, *International English Academic Test (IELTS)*, Overall Band Score: 6.5. Test Report Form Number: 15CU000260SOTC003A, University of Cambridge ESOL Examinations.
(<http://ielts.org>)

Education

2013–2016 **Master in Computer Science**, *The Central University of Las Villas*, Cuba.
Center of Informatics Studies. Department of Artificial Intelligence.

Master thesis

Title *Predictive models applied to baseball*
Supervisor PhD. Irvin Pérez Morales

Education

2009–2013 **Bachelor of Computer Science**, *The Central University of Las Villas*, Cuba.
Skilled in Data Mining and Machine Learning.

Bachelor thesis

Title *Time series data mining and its application in rainfall forecasting*
Supervisors M.Sc. Mabel González Castellanos & PhD. Yanet Rodríguez Sarabia

Experience

2013–2016 **Data Analysis, Teacher & Web Programmer**, DEPARTMENT OF SPORT SCIENCES, The Central University of Las Villas.
Develop websites for the ICT, as well as sports' software according to the specific interests of the institution.

- Detailed achievements:
- Design and implement the web interface of a scientific journal using the Open Journal System framework (<http://revistaciaf.uclv.edu.cu>).
 - Implementation of the following software:
 - A package for time series classification in Weka.
 - A computer system for analyze the individual competitive activity during water polo games.
 - A Retrosheet data analyzer.

Postgraduate courses received

2015–2016 **Computer Science Courses**, THE CENTRAL UNIVERSITY OF LAS VILLAS.

- Advanced Data Structures
- Computational Mathematics
- Methods of Artificial Intelligence for Problems Solution
- Research Methodology
- Advance Databases Modeling
- Computer Networks and Data Transmission
- Qualitative Analysis of Data
- Parallel Computing
- Patterns Recognition
- Advance Software Engineering
- Artificial Neural Networks
- Neuro-Fuzzy Systems
- Knowledge Based Systems
- Quality of Software

Refereed papers

- 2017 SOTO VALERO, C., GONZÁLEZ CASTELLANOS, M. PÉREZ MORALES, I. *A predictive model for analyzing the starting pitchers' performance using time series classification methods*. **International Journal of Performance Analysis in Sport**, DOI: 10.1080/24748668.2017.1354544.
- 2017 SOTO VALERO, C. *A Gaussian mixture clustering model for characterizing football players using the EA Sports' FIFA video game system*. **RICYDE. Revista Internacional de Ciencias del Deporte**, 13(49), DOI: 10.5232/ricyde2017.04904.
- 2016 SOTO VALERO, C. *Predicting Win-Loss outcomes in MLB regular season games: A comparative study using data mining methods*. **International Journal of Computer Science in Sports**, 15(2), DOI: 10.1515/ijcss-2016-0007.
- 2016 SOTO VALERO, C., PÉREZ MORALES, I., GONZÁLEZ CASTELLANOS, M., & DE LA CELDA BROVKINA, A. 2016. *ACI-Polo: A computer system for analyzing individual competitive activity in water polo games*. **Revista Cubana de Ciencias Informáticas**, 10(1), 229-244.
- 2015 IBARRA VARGAS, M. S., SOTO VALERO, C., MARTÍN DÍAZ, Y. & HEREDIA TORRES, R. F. 2015. *Propuesta de ejercicios para mejorar la efectividad de las defensas en boxeadores juveniles*. **Revista Española de Educación Física y Deportes**, 51, 73-89.
- 2015 SOTO VALERO, C. & GONZÁLEZ CASTELLANOS, M. 2015. *Sabermetrics and new trends in the statistical analysis of baseball*. **Retos: Nuevas Tendencias en Deporte Educación Física y Recreación**, 28, 122-127.
- 2013 GONZÁLEZ CASTELLANOS, M. & SOTO VALERO, C. 2013. *Time series data mining*. In: FEIJÓ, E. (ed.), ISBN: 978-959-250-924-5.

Proceedings

- 2016 SOTO VALERO, C. & GONZÁLEZ CASTELLANOS, M. 2016. *Package for time series classification in Weka*. **III Conferencia Internacional en Ciencias Computacionales e Informáticas**, Habana 2016.

Software registrations

- 2015 SOTO VALERO, C., STANISLAS, P. & GONZÁLEZ CASTELLANOS, M. 2015. *ACI-Polo: A computer system for analyzing individual competitive activity in water polo games*. CENDA 3265-2013, Cuba.
- 2013 SOTO VALERO, C., GONZÁLEZ CASTELLANOS, M. & RODRÍGUEZ SARABIA, Y. 2013. *timeSeriesClassification: A package for time series classification in Weka*. CENDA 3833-2014, Cuba.

Computer skills

Languages Java, JavaScript, R, Python

Tools L^AT_EX, Git, Weka, HTML5, CSS3, Adobe Suite, Microsoft Office, LINUX, JQuery, MySQL, Bootstrap3, Shiny, SPSS, WordPress