

# César Soto Valero

## Curriculum Vitae

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*Researcher and 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

- 2014–2016 **MSc Computer Science**, *The Central University of Las Villas*, Cuba.  
Center of Informatics Studies, Department of Artificial Intelligence.
- 2009–2013 **BSc Computer Science**, *The Central University of Las Villas*, Cuba.  
Faculty of Mathematics, Physics and Computation.

### Work experience

- 2013–2017 **Data Science, Teaching & Web Programming**, DEPARTMENT OF SPORT SCIENCES, The Central University of Las Villas.  
Developed web services for the ICT as well as sports' software, according to the specific interests of the department.
- 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**, *Offered by the Department of Computer Science*, 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

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## 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), 244-259, 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), 91-112, 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.

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## 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.

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## 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.

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## Awards

- 2016 Award of the Academy of Sciences of Cuba. *Ministry of Science, Technology and Environment.* Title of the work: "Algorithms for classifying time series".

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## Technical skills

Languages Java, JavaScript, R, Python

Tools  $\LaTeX$ , Git, Weka, KEEL, HTML5, CSS3, Adobe Suite CC, Microsoft Office, LINUX, JQuery, MySQL, Bootstrap3, Shiny, SPSS, WordPress