

c v n CURRÍCULUM VITAE NORMALIZADO



Aleix Alcacer Sales

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Aleix Alcacer Sales

Surname(s): **Alcacer Sales**
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Current professional situation

Employing entity: Universitat Jaume I **Type of entity:** University
Department: Dep. de Matemàtiques
Professional category: Personal investigador en formació (Programa FPU Pla estatal) **Educational Management (Yes/No):** No
City employing entity: Castellón, Valencian Community, Spain
Start date: 01/12/2021
Type of contract: Others **Dedication regime:** Full time

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universitat Jaume I	Personal Investigador en Formació - Programa ACIF(GV)	01/10/2021
2	Francesc Alted	Analista i disenyador de software	11/10/2018
3	Universitat Jaume I	Tècnic Mitjà d'Investigació	17/10/2018
4	Universidad Jaime I	Professor extern	01/02/2021

1 **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Dep. de Matemàtiques
City employing entity: Castellón, Valencian Community, Spain
Professional category: Personal Investigador en Formació - Programa ACIF(GV) **Educational Management (Yes/No):** No
Start-End date: 01/10/2021 - 30/11/2021 **Duration:** 2 months
Dedication regime: Full time

2 **Employing entity:** Francesc Alted
Professional category: Analista i disenyador de software
Start-End date: 11/10/2018 - 30/09/2021
Performed tasks: Analista i disenyador de software. Vaig desenvolupar un contenidor per a dades multidimensionals amb compressió anomenat Caterva (<https://github.com/Blosc/caterva>) i IronArray (<https://ironarray.io/>).

3 **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Dep. de Matemàtiques
City employing entity: Castellón, Valencian Community, Spain



Professional category: Tècnic Mitjà d'Investigació

Start-End date: 17/10/2018 - 31/08/2021

Dedication regime: Part time

Educational Management (Yes/No): No

Duration: 34 months

4 **Employing entity:** Universidad Jaime I

Professional category: Professor extern

Start-End date: 01/02/2021 - 01/03/2021

Performed tasks: Professor extern del Màster en Matemàtica Computacional

Type of entity: University



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

Name of qualification: Grado en Matemática Computacional

Degree awarding entity: Universidad Jaime I

Type of entity: University

Date of qualification: 31/07/2018

Prize: End of degree award

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Matemáticas

Degree awarding entity: Universidad Jaime I

Type of entity: University

Thesis title: New developments and applications of archetypal analysis (en proceso)

Thesis director: I. Epifanio

Other postgraduate university studies

Postgraduate qualification: Máster en Matemática Computacional

Degree awarding entity: Universidad Jaime I

Type of entity: University

Date of qualification: 08/07/2020

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1 Title of course/seminar:** Metodologia activa: disseny d'un joc d'escapada (ESCAPE ROOM)
Organising entity: Universidad Jaime I **Type of entity:** University
Duration in hours: 8 hours
Start-End date: 30/05/2023 - 01/06/2023
- 2 Title of course/seminar:** Disseny i utilització de presentacions multimèdia en la docència en línia
Organising entity: Universidad Jaime I **Type of entity:** University
Duration in hours: 12 hours
Start-End date: 20/03/2023 - 21/04/2023
- 3 Title of course/seminar:** Eines i estratègies per a l'avaluació de l'aprenentatge
Organising entity: Universidad Jaime I **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 30/01/2023 - 10/02/2023



- 4** **Title of course/seminar:** Taller "Com incloure els Objectius de Desenvolupament Sostenible (ODS) en la teua assignatura?"
Organising entity: Universidad Jaime I **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 02/02/2023 - 07/02/2023
- 5** **Title of course/seminar:** Metodologia didàctica per a l'ensenyament universitari
Organising entity: Universidad Jaime I **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 22/02/2022 - 07/03/2022
- 6** **Title of course/seminar:** Planificació de la docència universitària
Organising entity: Universidad Jaime I **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 11/01/2022 - 24/01/2022
- 7** **Title of course/seminar:** Disseny de qüestionaris a l'Aula Virtual (Nivell Intermedi-Avançat)
Organising entity: Universidad Jaime I **Type of entity:** University
Duration in hours: 15 hours
Start-End date: 13/12/2021 - 21/01/2022

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	B2	B1	B1	B2

Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: Statistics Applied to Public Management and Administration
University degree: Bachelor's Degree in Public Management and Administration
Frequency of the activity: 2
End date: 17/05/2023
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 10,5
Entity: Universitat Jaume I **Type of entity:** University
Department: Dep. de Matemàtiques
City of entity: Castellón, Valencian Community, Spain
Subject language: Catalan
- 2** **Type of teaching:** Official teaching
Name of the course: Introduction to Statistics (Statistics)
University degree: Bachelor's Degree in Labour Relations and Human Resources
Frequency of the activity: 1
End date: 17/05/2022



Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1,5

Entity: Universitat Jaume I

Type of entity: University

Department: Dep. de Matemàtiques

City of entity: Castellón, Valencian Community, Spain

Subject language: Catalan

3 Type of teaching: Official teaching

Name of the course: Software for Modelling Industrial Systems

University degree: University Master's Degree in Computational Mathematics (2013 Programme of Study - Classroom-Based)

Frequency of the activity: 1

End date: 31/07/2021

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 0

Entity: Universitat Jaume I

Type of entity: University

City of entity: Castellón, Valencian Community, Spain

Subject language: Spanish

4 Type of teaching: Official teaching

Name of the course: Software for Modelling Industrial Systems (Distance Learning)

University degree: University Master's Degree in Computational Mathematics (2013 Programme of Study - Distance)

Frequency of the activity: 1

End date: 31/07/2021

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 0

Entity: Universitat Jaume I

Type of entity: University

City of entity: Castellón, Valencian Community, Spain

Subject language: Spanish

Participation in innovative teaching projects

1 Project title: Integració dels ODS en la docència d'assignatures de matemàtiques i estadística

Type of participation: Team member

Funding entity: Universidad Jaime I

Type of entity: University

Start-End date: 01/01/2022 - 31/12/2023

2 Project title: Detecció del rendiment acadèmic i explotació de dades mitjançant fitxers de registre Moodle

Type of participation: Team member

Funding entity: Universitat de València

Type of entity: University

Start-End date: 01/09/2022 - 31/07/2023



Participation in conferences with talks focused on teacher training

- 1 Name of the event:** Avances en Tecnologías, Innovación y Desafíos de la Educación Superior 2022. ATIDES2022
Type of event: Conference
Type of participation: Organizational - Scientific and organizing committee
City of event: Castelló, Spain
Organising entity: Univesitat Jaume I
Avances en Tecnologías, Innovación y Desafíos de la Educación Superior 2022. ATIDES2022.
- 2 Name of the event:** ATIDES 2022. Avances en tecnologías, Innovación y Desafíos de la Educación Superior
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Castelló, Spain
Organising entity: Universitat Jaume I
ATIDES 2022. Avances en tecnologías, Innovación y Desafíos de la Educación Superior.
- 3 Name of the event:** Analysis of the contributions to the SDGs of university students by degrees
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Arequipa, Peru
Publication type: Book chapter
XII International Conference on Virtual Campus. Analysis of the contributions to the SDGs of university students by degrees. IEEE, 2022. Available on-line at: <<http://dx.doi.org/10.1109/JICV56113.2022.9934727>>. ISBN 9781665451062

Scientific and technological experience

Research and development groups/teams

Name of the group: Anàlisi de formes 2D i 3D, Aprenentatge estadístic en Intel·ligència Artificial, Estereologia
Aims of the group: Shape Analysis. Aplicaciones en medicina y antropometría. Big Data. Aprendizaje estadístico supervisado y no supervisado (análisis de arquetipos, bosques aleatorios, redes neuronales, multidimensional scaling, clustering, etc.). Análisis de datos funcionales. Análisis de imágenes. Conjuntos aleatorios cerrados y procesos puntuales. Desarrollo e implementación de ecuaciones en estereología
Name of principal investigator: Amelia Simó Vidal **Number of members in the group:** 6
Standardised code: 153
City of group: Castellón de la Plana, Valencian Community, Spain
Affiliation entity: Universitat Jaume I
Start date: 08/11/2020

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Estudio de la neuroplasticidad en el aprendizaje de resolución de problemas aritmético-algebraicos con error de inversión
Entity where project took place: Universidad Jaime **Type of entity:** University
|
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** Ministerio
Start-End date: 01/09/2021 - 31/12/2025
Total amount: 48.400 €
- 2** **Name of the project:** APRENTATGE ESTADÍSTIC PER BIG DATA. APLICACIONS EN INDÚSTRIA I MEDICINA.
Geographical area: Projecte d'Investigació Local
Degree of contribution: Researcher
Entity where project took place: Universitat Jaume I
Name principal investigator (PI, Co-PI....): Irene Epifanio López; María Victoria Ibáñez Gual
Nº of researchers: 5
Funding entity or bodies:
Universitat Jaume I **Type of entity:** UNIVERSIDAD
City funding entity: Castelló de la Plana, Spain
Name of the programme: CONVOCATÒRIA 2020 DE PROJECTES D'INVESTIGACIÓ CIENTÍFICA I DESENVOLUPAMENT TECNOLÒGIC. ACCIÓ 1.1 DEL PLA DE PROMOCIÓ DE LA INVESTIGACIÓ DE L'UJI * Modalitat B. Projectes per a grups d'investigació consolidats i investigadors individuals
Code according to the funding entity: UJI-B2020-22
Start-End date: 01/01/2021 - 31/12/2023 **Duration:** 36 months
Total amount: 15.150 €
- 3** **Name of the project:** Procedimientos de big data para la asignación de talla de calzado en venta online con información antropométrica 3D
Entity where project took place: Universidad Jaime **Type of entity:** University
|
Name principal investigator (PI, Co-PI....): I. Epifanio
Nº of researchers: 9
Funding entity or bodies:
Ministerio de Economía, Industria y Competitividad **Type of entity:** Ministerio
Start-End date: 01/01/2018 - 31/08/2021
Participating entity/entities: Instituto de Biomecánica de Valencia (IBV)
Total amount: 53.240 €
- 4** **Name of the project:** Statistical learning for big data problems applied to child garment size matching
Entity where project took place: Universidad Jaime **Type of entity:** University
|
Name principal investigator (PI, Co-PI....): I. Epifanio
Nº of researchers: 4

**Funding entity or bodies:**

Universidad Jaime I

Type of entity: University**Start-End date:** 01/01/2018 - 31/12/2020**Total amount:** 8.446 €**Scientific and technological activities****Scientific production****Publications, scientific and technical documents**

- 1** Aleix Alcacer Sales; Irene Epifanio López; Jorge Valero; Alfredo Ballester. Combining Classification and User-Based Collaborative Filtering for Matching Footwear Size. MATHEMATICS. 9, (Switzerland): 2021. Available on-line at: <<http://dx.doi.org/10.3390/math9070771>>. ISSN 2227-7390
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** ISI
Impact index in year of publication: 2.592
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - MATHEMATICS
Journal in the top 25%: Yes
- 2** Aleix Alcacer Sales; Irene Epifanio López; María Victoria Ibáñez Gual; Amelia Simó Vidal; Alfredo Ballester. A data-driven classification of 3D foot types by archetypal shapes based on landmarks. PLOS ONE. 15, (United States of America): 2020. Available on-line at: <<http://dx.doi.org/10.1371/journal.pone.0228016>>. ISSN 1932-6203
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** ISI
Impact index in year of publication: 3.24
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - MULTIDISCIPLINARY SCIENCES
Journal in the top 25%: No

Works submitted to national or international conferences

- 1** **Title of the work:** Discovering archetypal football teams and stats with biarchetype analysis
Name of the conference: useR! 2022 The R User Conference
Type of event: Conference
City of event: Online, United States of America
Date of event: 20/06/2022
Geographical area: Non EU International
Aleix Alcacer Sales; Irene Epifanio López. En: useR! 2022 The R User Conference.
- 2** **Title of the work:** Combining user-based collaborative filtering and classification for matching footwear size
Name of the conference: CFE-CMStatistics 2021
Type of event: Conference
City of event: London, United Kingdom
Date of event: 19/12/2021
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Type of contribution: Book chapter



Aleix Alcacer Sales; Irene Epifanio López; Jorge Valero; Alfredo Ballester. En: CFE-CMStatistics 2021. (United Kingdom): Elsevier; ECOSTA ECONOMETRICS AND STATISTICS, 2021. ISBN 9789925781256

3 Title of the work: Analysis of gene expression data using biarchetype analysis

Name of the conference: V Jornadas Científicas de Estudiantes de la SEB

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

City of event: València, Spain

Date of event: 27/01/2021

Aleix Alcacer Sales; Irene Epifanio López. En: V Jornadas Científicas de Estudiantes de la SEB.

4 Title of the work: Biarchetype analysis: definition and application to sports analysis

Name of the conference: 3rd BYMAT Conference – Bringing Young Mathematicians Together

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: On line, Spain

Date of event: 01/12/2020

Aleix Alcacer Sales; Irene Epifanio López. En: 3rd BYMAT Conference – Bringing Young Mathematicians Together.

5 Title of the work: What are the types of Spanish foot shapes? Archetypoid analysis of 3D images

Name of the conference: 2020 Virtual International Biometric Conference

Type of event: Conference

Geographical area: Non EU International

City of event: Seúl, Republic of Korea

Date of event: 19/07/2020

Aleix Alcacer Sales; Irene Epifanio López; María Victoria Ibáñez Gual; Amelia Simó Vidal; Alfredo Ballester. En: 2020 Virtual International Biometric Conference.

6 Title of the work: A data-driven classification of 3D foot types by archetypal shapes based on landmarks

Name of the conference: V Congreso de Jóvenes Investigadores de la RSME

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Castelló, Spain

Date of event: 27/01/2020

Aleix Alcacer Sales; Irene Epifanio López; María Victoria Ibáñez Gual; Amelia Simó Vidal; A. Ballester. En: V Congreso de Jóvenes Investigadores de la RSME.

7 Title of the work: Archetypal contour shapes

Name of the conference: 12th Scientific Meeting Classification and Data Analysis Group (CLADAG 2019)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Cassino, Italy

Date of event: 11/09/2019

Type of contribution: Book chapter

Aleix Alcacer Sales; Irene Epifanio López; María Victoria Ibáñez Gual; Amelia Simó Vidal. En: 12th Scientific Meeting Classification and Data Analysis Group (CLADAG 2019). pp. 26 - 29. (Italy): Università degli studi di Cassino e del Lazio Meridionale, 2019. Available on-line at: <<http://hdl.handle.net/10234/186701>>. ISBN 9788883171086



- 8** **Title of the work:** Analysis of 2D foot morphology by functional archetypal analysis
Name of the conference: XVII Conferencia Española y VII Encuentro Iberoamericano de Biometría (CEB-EIB 2019)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: València, Spain
Date of event: 19/06/2019
Type of contribution: Book chapter
Aleix Alcacer Sales; Irene Epifanio López; María Victoria Ibáñez Gual; Amelia Simó Vidal.
En: XVII Conferencia Española y VII Encuentro Iberoamericano de Biometría (CEB-EIB 2019). pp. 24 - 27. (Spain): Autoeditado por Comité congreso, 2019. Available on-line at:
<https://adeit-estaticos.econgres.es/2019_CEB/LIBROABSTRACTS_2.pdf>. ISBN 9788409117062