

CURRICULUM VITAE

PERSONAL José Agustín Válgoma Solanas
La Inmaculada 25, 1 C
48903 Barakaldo, Bizkaia (Spain)
Tel.: +34 687556725, +34 944723589
Fax.: +34 944723604

E-mail Address: agustin@valgoma.net

EDUCATION

2000–2001 Business and Management course in the University of the Basque Country.
Ph.D. in Physics from the University of the Basque Country.

1996–2000 Doctorate program “Ciencia e Ingeniería de los Materiales”, University of the Basque Country.
Spanish Ministry of Science and Technology (MEC) scholarship for supporting doctorate investigation.
Diploma Thesis “*Estudio teórico de la transición de fase ferroelástica en el pentóxido de arsénico*” with maximum qualification.
Awarded SUSTATU price for enterprising young people in business projects.

1991–1996 Postgraduate in Science (Physics) from the University of the Basque Country.

EMPLOYMENT EXPERIENCE

2002–2001 Astrowap: Development of astronomic applications for WAP devices.
Bengoetxe intranet: Planification and implementation of a collaborative portal for secondary teachers. Integration of the portal with a webmail service PHP-based.
tele7.tv: Collaboration in the development of simplified HTML output. Integration with astronomic services and webmail.
Cardiva.biz: Development of product management services and search utilities.
Responsible of several Linux courses. Automatic Linux Installation and Configuration experienced.

2000–2001 Co-founder of eFaber Soluciones Inteligentes Ltd. spanish company.

1996–2000 UPV/EHU: Lab Teaching Assistant in the Department of Física de la Materia Condensada, UPV:

- Física General, first year Physics Course.
- Mecánica y Ondas, second year Physics Course.

Maintainer and support of Unix, VMS, Windows and Mac users in Departments of Física de la Materia Condensada and Física Aplicada II from UPV/EHU.

Collaborator in the development and implementation of a Beowulf cluster for the Department of Física de la Materia Condensada.

1991–1996 Freelance teacher for secondary and graduate students.

LANGUAGES

Fluent in English.

Can read and write some Basque.

Spanish (mother tongue).

COMPUTER SKILLS

Operating Systems

- Unix (Linux, Digital Unix/OSF/Tru64 Unix, FreeBSD): User and administration level.
- HP-UX, IRIX, Solaris: User level.
- MS DOS/Windows.
- Macintosh (MacOS): User level.
- PalmOS.

Programming Languages

- Fortran (advanced under DOS and Unix).
- Basic, Pascal (DOS).
- C (advanced under Unix, DOS and PalmOS).
- Java under Linux.
- Tcl/tk (Unix, Windows, MacOS).
- Python.
- PHP4.
- Shell scripts, sed, awk.
- HTML, DHTML, XHTML, XML.
- WML and WMLScript.
- SQL.

Network

- Advanced knowledge of TCP/IP networks, Internet y different servers and services (web, ftp, NFS, Samba, NIS, LDAP, sendmail, qmail, news, security (ssh, pgp, openssl, iptables, firewall, squid), backup, etc.)
- Experienced developer and maintainer of AOLserver and Apache web servers.
- Experience in automatic and simultaneous installation of pre-configured Linux systems.
- Experience in the implementation and configuration of DNS, IMAP, POP servers, and webmail services.
- Good knowledge of webmin toolkit for remote web administration of Linux systems.
- Experience with Jabber, an XML-based Instant Messaging (IM) system.

Other

- Experience as developer of dynamic web services.
- General ideas about implementation and configuration of Beowulf cluster of PCs.
- PC and network hardware knowledge.
- Relational Databases: Interbase, PostgreSQL, Oracle.
- \TeX and \LaTeX .
- Office packages.

ORAL PRESENTATIONS AND COURSES

- Cálculos LAPW (Linearized Augmented Plane Wave) en sólidos ferroelásticos y su comparación con cálculos de ondas planas con pseudopotenciales. UPV, December, 1999.
- First-principles calculations in ferroelastic materials. TU-Wien, Vienna, November, 1999.
- First-Principles Study of Ferroelasticity in CaCl_2 and As_2O_5 . European Meeting on Ferroelectricity, Praga, July, 1999.
- Estudio ab-initio de transformaciones ferroelásticas propias y pseudopropias. UPV, December, 1998.
- Estudio teórico de la transición de fase ferroelástica en el pentóxido de arsénico". UPV, November, 1997.
- Analysis of ferroelasticity using first-principles methods. Trieste, Italy, June, 1997.
- Análisis de la (in)estabilidad estructural del As_2O_5 mediante cálculos ab-initio. UPV, May, 1997.

- Estudio a partir de primeros principios de tres materiales sencillos: NaCl, Na, Cl₂. UPV, December, 1996.

SELECTED PUBLICATIONS

- J.A. Valgoma, J.M. Perez-Mato and Alberto Garcıa: First-Principles Study of Ferroelasticity in CaCl₂ and As₂O₅, *Ferroelectrics* **237**(1-4), 377-384, (2000).
- R.L. Withers, Y. Tabira, J.A. Valgoma, M. Aroyo and M.T. Dove: The inherent displacive flexibility of the hexacelsian tetrahedral framework and its relationship to polymorphism in Ba-hexacelsian, *Phys. Chem. Min.* **27**, 747 (2000).
- J.A. Valgoma, J.M. Perez-Mato, Alberto Garcıa, K. Schwarz and P. Blaha: First-Principles study of the ferroelastic phase transition in CaCl₂, *Phys. Rev. B* **65**, 134104 (2002).
- J.A. Valgoma: Correo con qmail, *Linux Magazine* (spanish edition) **14**, pags. 44-47 (2002).
- J.A. Valgoma, J.M. Perez-Mato and Alberto Garcıa: Ab-initio Determination of the Ferroelastic Phase Transition in As₂O₅.

CONFERENCES AND WORKSHOPS

- COLLEGES ON ADVANCED COMPUTATIONAL PHYSICS: Monte Carlo Simulations, International Centre For Theoretical Physics, Trieste, Italy, June, 1997.
- WORKSHOP ON CONDENSED MATTER PHYSICS: Applications of the Density Functional Theory and Methods of Quantum Chemistry, Laredo, Spain, June, 1999.
- EMF-9 – 9th European Meeting on Ferroelectricity, Praha, July 1999.
- ADVANCES IN FIRST-PRINCIPLES COMPUTATIONAL CONDENSED MATTER PHYSICS, Spain-2000 Mini-Workshop, Madrid, January, 2000.
- OSDDEM - Open Source and Free Software Developer's European Meeting, Brussels 3-4 February, 2001.
- ArsDigita/Competitiveness.com Workshop/Bootcamp at Barcelona, Parque Tecnologico de Cerdanyola, Barcelona 2-3 June, 2001.
- EuskadInternet 2001, Palacio de Congresos Kursaal, San Sebastian, 22-23 November, 2001.

STAYS IN FOREIGN CENTRES

- Collaboration with Professor SCHWARZ Karlheinz from Institute of Physical and Theoretical Chemistry, TU Vienna, Austria, November, 1999.

Portugalete (Spain), March 2004