

Escuela de Pregrado – Facultad de Ciencias – Universidad de Chile



Nombres:

GONZALO JAVIER

Apellidos:

GUTIÉRREZ GALLARDO

Título Profesional o Grado Académico (incluya el año de obtención):

LICENCIATURA EN CIENCIAS C/M EN FÍSICA, UNIVERSIDAD DE CHILE 1987.

Estudios de Postgrado o Especialización (institución donde lo obtuvo y año de obtención):

DOCTOR EN CIENCIAS MENCIÓN FÍSICA, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE 1997.

Actividad Actual e Institución en la cual trabaja:

PROFESOR ASOCIADO DE LA UNIVERSIDAD DE CHILE. DEPARTAMENTO DE FÍSICA, FACULTAD DE CIENCIAS. SOCIO ACTIVO DE LA SOCIEDAD CHILENA DE FÍSICA.

Reseña de su actividad laboral actual:

Área de Investigación: Física de la Materia Condensada. Simulaciones en Materia Condensada.

After finishing my high school education at Liceo Coeducacional de Quilpué, I entered Universidad de Chile where I obtained the undergraduate degree “Licenciado en Física” in the Facultad de Ciencias, Universidad de Chile in 1985. In 1991 I began postgraduate studies at P. Universidad Católica de Chile, obtaining a Master’s degree in 1993 and a PhD in Physics in 1997, supported by a Conicyt fellowship. My PhD thesis, entitled “Amorphous solids and solid state amorphization: a Molecular Dynamics Study”, was conducted at PUC in Santiago and Louisiana State University in Baton Rouge under professors Miguel Kiwi (PUC) and Priya Vashishta (LSU). After that, I spent two years at the Condensed Matter Theory Group (Borje Johansson group) at Uppsala University in Sweden, as a Postdoctoral Fellow supported by the Faculty of Science and Technology of Uppsala University. Later, I returned to Chile, where I

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worked at Universidad de Santiago (USACH) as an Associate Researcher. In 2004 I moved to the Department of Physics in the Facultad de Ciencias, Universidad de Chile, where now I am an Associate Professor.

PUBLICACIONES INDEXADAS:

Amigo, N., Loyola, C., Davis, S., Gutiérrez, G.

Hypervelocity impact of copper nano-projectiles on copper

(2013) Computational Materials Science, 68, pp. 245-254. Article in Press.

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Davis, S., Gutiérrez, G.

Conjugate variables in continuous maximum-entropy inference

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Davis, S., Gutiérrez, G.

Structural, elastic, vibrational and electronic properties of amorphous Al₂O₃ from ab initio calculations

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Orellana, W., Gutiérrez, G.

First-principles calculations of the thermal stability of Ti₃SiC₂(0001) surfaces

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Pliego, M., Fuentes, C., Gutiérrez, G.J., Medina, A., Aguilar, M.R.

Múltiples alturas de equilibrio en capilares cónicos

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Gutiérrez, G.

Atomistic simulation of densified amorphous alumina

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Gutiérrez, G., Johansson, B.

Molecular dynamics study of structural properties of amorphous Al₂O₃

(2002) Physical Review B - Condensed Matter and Materials Physics, 65 (10), art. no. 104202, pp. 1042021-1042029. Cited 122 times.

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Theoretical structure determination of γ -Al₂O₃

(2002) Physical Review B - Condensed Matter and Materials Physics, 65 (1), art. no. 012101, pp. 121011-121014. Cited 92 times.

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Shannon entropy of 1-normalized electron density
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Distribution of rings and intermediate range correlations in silica glass under pressure - a molecular dynamics study
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PROYECTOS DE INVESTIGACIÓN:

Investigador Responsable. 1120603 Mechanical properties of bulk metallic glasses: a computer simulation study. 2012

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Coinvestigador. 1020035 Spin structure and magnetic behaviour at the interface of exchange biased films. 2002

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