

# Sergio Hernandez

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## Education

<b>PhD in Computer Science. (student)</b> <i>Victoria University of Wellington.</i>	2006 – Present
<b>Master in Computer Engineering.</b> <i>Universidad Santiago de Chile.</i>	2000 – 2004
<b>Professional Acoustical Engineer.</b> <i>Universidad Tecnologica de Chile.</i>	1998 – 2000
<b>Bachelor in Science.</b> <i>Universidad Tecnologica de Chile.</i>	1994 – 1998

## Selected Coursework

- Object Oriented Programming
- Software Engineering
- Computer Vision
- Data Mining
- Web Site Usability
- Signal Processing
- Computer Networks
- Numerical Methods
- Multimedia
- Business Intelligence

## Awards

National Committee for Science and Technology Research (Conicyt) – Victoria University of Wellington Scholarship.	2006 – 2009
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## Work Experience

### **Web development for business site.**

*August 2006 – November 2006*

Performed web development and integration of third party components for web-based trading system (<http://www.tcnc.com>).  
New Zealand.

### **Support Engineer for Intranet at BancoEstado Bank.**

*August 2000 – January 2006*

Performed Web development for large Intranet site of BancoEstado (<http://www.bancoestado.cl>) Bank with 9000 internal users. This role was in charge of the Content Management System (CMS) management and developing internal applications under corporate standards.  
Chile.

### **Web application development for clinical records management for Medicine Faculty at Universidad de Chile.**

*October 2005 – November 2005*

Performed Web application development for clinical records management system for research data at Universidad de Chile (<http://gardiner.med.uchile.cl:8080/pacientes>).  
Chile.

### **Web site support for at Loop.cl web zine**

*August 2001 – December 2005*

Responsabile for installation, management and support for open source CMS (Mambo) for chilean music web zine (<http://www.loop.cl>).  
Chile.

### **Software Trainer for commercial agents at BBVA Bank.**

*March 2000 – April 2000*

Performed training and installation for commercial platform in different branches of BBVA Bank (<http://www.bbva.cl>).  
Chile.

# Technical Skills

## Programming

C (Intermediate)  
C+ (Intermediate)  
Java (Advanced)  
Visual Basic (Advanced)  
C# (Intermediate)

## Databases

MySQL (Intermediate)  
PostgreSQL (Basic)  
MS Access (Intermediate)  
MS SQL Server (Intermediate)

## Web

PHP (Advanced)  
ASP (Advanced)  
JSP (Advanced)  
HTML (Advanced)  
XML (Advanced)  
DHTML (Advanced)  
Javascript (Advanced)

## Data Analysis

Matlab (Advanced)  
WEKA (Advanced)  
Crystal Reports (Intermediate)  
Webtrends (Advanced)  
R – Splus (Intermediate)

# Publications

## **Hernandez, S.; Saez, D.; Mery, D.: NeuroFuzzy Method for Automated Defect Detection of Aluminium Castings.**

Proceedings of the International Conference on Image Analysis and Recognition (ICIAR2004), Porto, Sept 29 Oct 1. Lecture Notes in Computer Science.

## **Hernandez, S.; Saez, D.; Mery, D.; da Silva, R.; Siqueira, M.H.S.: Automated Defect Detection in Aluminium Castings and Welds Using NeuroFuzzy Classifiers.**

Accepted in 16th World Conference on Non-Destructive Testing (WCNDT 2004), Montreal, Aug 30 Sep 03, 2004.