

# DANNY ALFREDO LOBOS CALQUÍN

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## EDUCATION

2007-2010 **Bauhaus-Universität Weimar** (Weimar, Germany)

**Dr-Ing** © Computer Science in Architecture

(Submitted on October 2010, defense on February 2011)

Thesis Title: "**Building Information Modeling and Plausibility in the Early Stages of the Architectural Design**".

Supervisor: Dr-Ing Dirk Donath (Bauhaus-University Weimar, Germany).

Reviewers: Phil Bernstein (Yale University, USA), Karl Beucke (Bauhaus-University Weimar).

1997-2000 Universidad de Santiago de Chile (Chile), **Degree in Architecture**

1994-1997 Universidad de Santiago de Chile (Chile), **BA Architecture**

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## PUBLICATIONS

### Indexed Journals (ISI)

- "Plausibility in Early Stages of Architectural Design. A New Tool for High-Rise Housing Buildings" Donath, D and **Lobos, D** Journal Tsinghua University Science and Technology 14 (3) 327-332, June 2009 (Beijing, China).
- "Space Layout Problem in Architecture. A survey and reflections", **Lobos, D** and Donath, D Arqitekturarevista. Universidade do Vale do Rio dos Sinos (Brasil), Editoria de Periódicos Científicos e Acadêmicos, Vol. 6(2)136-161.
- "Das Magnitude 8.8 Maule (Chile)-Erdbeben vom 27. Februar 2010 – Ingenieuranalyse der Erdbebenschäden. Teil 1" Abrahamczyk, L; Schwarz, J; **Lobos, D** and Maiwald, H. Bautechnik 87 (2010, Heft 8) 462-473. Wiley online library.

### Journals

- "Typing the Shape of a Building: Zoning Planning Support Tool for Individual Plots in Architectural Design". Donath, D and **Lobos, D** AMIT 2008. 4(5)1-11. Moscow.

### Congresses

- "Top Down and Bottom Up. Using BIM to Merge these Two Design Strategies", SIGRADI XII. Universidad de La Habana (Dec2008).
- "Simulation and Evaluation for Building Shapes and Floor Layout in Early Stages of Design", 1st International Congress Bauhaus.solar. November 2008, Erfurt (Germany).
- "Massing Study Support. A New Tool for Early Stages of Architectural Design". eCAADe 2008 Conference (Belgium).

- "One for All, All for One: Connecting Ideas for Collaborative Urban and Architectural Design". ICE 2008 14<sup>th</sup>, Lisbon, Jun 2008.
- "Plausible Design of Floor Layouts. A Methodology Based on IT Tools", 10th SIGRADI Congress, Universidad de Chile, Nov2006. pp293-298.

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EMPLOYMENT (ACADEMICAL, as in United States Academic ranks)

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- 2010 **Teaching Fellow** at Bauhaus-Universität Weimar (BUW), Germany  
 "Digitale Planung | **Sustainable Design Methods** | WS 10/11"  
 Notice Period: 1 Semester (available to start in Oregon in Sep 2011).
- 2007-2010 **Teaching Fellow** for Dr-Ing Prof. Frank Petzold (BUW)  
 "BIM or not to BIM" and "Experimentalbau\_Stahl".
- Teaching Fellow** for Dr-Ing Prof. in Dirk Donath Design Courses at the  
 Chair of Computer Science in Architecture (BUW): "Digital\_Space  
 [atelierhaus.her]", "Digital\_Space [modell] BILD", Entwurf Bachelor "Add-  
 On für Kirchen, Neue Kir(s)chen braucht das Land...", "Digitale Planung".
- 2000-2007 **CAD-Teacher** in several Chilean Universities (Santiago, Chile):
- Universidad Central: **Teaching Assistant** for Graphic Computing and Autodesk REVIT courses (Mar1998-Aug2006).
  - Universidad Central: **Instructor** for "Graphic Computing" and "Autodesk REVIT" courses (Aug2006-Mar2007).
  - Universidad de Santiago de Chile: **Instructor** of "Computing I", "Computing II", "Computing III" Teacher (Aug2006-Mar2007).
  - Universidad Ciencias de la Informática: **Instructor** of "Computing Applied to Architecture" Teacher (Mar2004-Mar2007).
  - Universidad de Las Américas: **Instructor** for "Computer-Aided Design I, II, III, IV and BIM" courses (Aug2001-Mar2007).
- 2001-2007 Universidad de Las Américas: **Head of Computer-Aided Design Group.**

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EMPLOYMENT (Academic/PRIVATE)

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- 2008 26<sup>th</sup> eCAADe Conference (Belgium), **BIM Trainer.**
- 2008-2009 Stuttgart University (Germany), BIM Trainer.
- 2008-2010 Bauhaus UniWeimar & Autodesk (Germany), BIM Trainer.  
 "Autodesk Students Experts" training courses, BIM Trainer.
- 2005-2007 Autodesk Reseller COMGRAP (Chile), BIM Trainer.

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EMPLOYMENT (PROFESSIONAL PRACTICE and CREATIVE WORK)

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Main duties: Project Architect, housing development, concept design, client presentation, design development, planning applications.

- 2000 – 2007 Private Houses: **Designer Architect** in Santiago de Chile.  
 Valderrama House Design (2002), Garate House Design and Refurbishment (2000), Mihovilovic House Design and Refurbishment (1999), Tirapegui Ly House Design (1998).

2000 – 2007 **Commercial Projects:** Designer Architect in Santiago de Chile.  
Store Design for "Calandre" and "Poeme" Shoes in Mall Plaza Oeste (1998 and 2004), Mall Plaza Vespuccio (2003), Mall Plaza La Serena (2001 and 2004).

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#### PROFESSIONAL AND ACADEMIC TRAINING

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Sep 2010 **BIM and Building Performance Analysis.** Master Class II, Universität der Künste (Berlin, Germany).

2003-2006 **Autodesk and Graphisoft Chilean Resellers** (Chile)  
Training and Updating Courses: Autodesk VIZ, AutoCAD, Revit, Architectural Desktop and Archicad (Certified Teacher Diploma).

May 2005 **Universidad de Las Américas** (Santiago, Chile):  
"Research Methodologies" courses.  
"Teaching School: Teaching and Professional Training" courses.

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#### CONFERENCES AND SEMINARS ATTENDED

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Sept. 2010 **Autodesk BIM Conference 2010** (Berlin, Germany).

Sept. 2009 **Design Modeling Symposium Berlin 2009.** Universität der Künste (Berlin, Germany)

Sept. 2009 **Autodesk BIM Conference 2009** (Berlin, Germany).

Feb. 2009 ENCUENTROS 2009. Third Conference of Young Chilean Scientists in Europe (Göttingen, Germany).

Dec. 2008 **Autodesk University 2008** Autodesk Annual Meeting. Autodesk scholarship winner. (Las Vegas, USA).

Oct. 2008 ICCCB-XXII Congress. **Tsinghua Science and Technology University** (Beijing, People's Republic of China).

Sept. 2008 **27th eCAADe Conference** (Antwerp, Belgic).

Jun. 2008 **Generative Components Seminar for Academics**, Bentley Systems and BRT Architects Office. (Hamburg, Germany)

Mar. 2008 **SmartGeometry Conference 2008**, BMW World, Bentley Systems and Generative Components. (Munich, Germany)

Sept. 2007 **26th eCAADe Conference** (Frankfurt am Main, Germany).

Sept. 2007 **Autodesk BIM Strategies Meeting**, Porsche Zentrum (Leipzig, Germany).

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#### CONFERENCES / LECTURES GIVEN

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Dec. 2008 **Georgia Institute of Technology** (USA)  
"Infar to Eastman". Lecture to Prof Charles Eastman and students of PhD Program.

Dec. 2004 **XIV Biennale of Architecture**, Lecture "Higher Education in the Digital Era", Santiago de Chile.

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#### SCHOLARSHIPS / AWARDS

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Jun. 2010 **Lecturer in Digital Design**, School of Architecture **University of Sheffield (UK)**, short listed for Faculty Position.

Oct. 2009 Scholarship from the **Post Graduate Funding Programme** (Thuringen, Germany).

Dec. 2008 Autodesk Scholarship for travelling to USA.

- Apr07-Apr11 Scholarship for PhD Studies. **Chilean National Board for Scientific and Technological Research** (Santiago, Chile).
- Oct. 2005 Award to the **Six Best Achievements**. Project "Certification of Competences Autodesk and Graphisoft", Santiago de Chile.
- 1993-1994 Student Scholarship given by the **Chilean Ministry of Education**.

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#### REVIEWER

- 2006-2008 **Member of the "Scientific Committee"** in Sigradi 2006 (Spanish reviewer) and Sigradi2008 (English reviewer) (SIGRADI: Spanish acronym for Iberoamerican Society of Computer Graphics).

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#### SUBSCRIPTIONS Printed (p) and On-Line (@)

- **"ResearchEU"**: Magazine from European Research Space (p)
- **"CUMINCAD"**: Cumulative Index of Computer Aided Architectural Design Works (@). Member since 2006.
- **"RIBA Online Services"**: Guest member of the **Royal Institute of British Architects** Online Services (@).

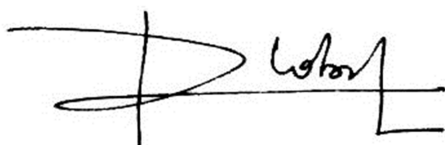
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#### OTHER SKILLS

**Project management skills** - Throughout my PhD I have had to maintain and prioritize different projects (publications, teaching, research, etc.), set objectives and meet targets within the tight constraints of time and resources. I have also had to continually develop my own knowledge and skills to keep up to date with current work. I wrote my thesis in 3 ½ years, which is a good record for Germany.

**Communication skills** - I am able to communicate confidently with people at all levels, from senior scientists (at universities) to my own immediate peers and technical staff. I have especially good communication with the students of my courses. I have developed excellent written communication skills as a result of preparing a detailed PhD thesis. Although foreign languages are hard for me, I am continuously improving them. I am a Spanish native speaker, and I have passed "Michigan Test of English Language Proficiency" and "DAF Mittelstufe Deutsch B1/B2" for German.

**Computational skills** - I am a confident user of various MS Windows software and cutting-edge technology (CAAD and BIM systems), particularly to handle the complex information of the building design process as well as simulate and evaluate the building performance.



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**DANNY LOBOS CALQUÍN**  
**Dr - Ing © / ARCHITECT**

December 2010