

Diego Arroyo Fernández

A R C H I T E C T, MASTER OF DESIGN SCIENCE

djarroyo@gmail.com / +56 9 9824 6127

Accomplished Architect with consistent success in leading architecture practice studios, relationship with clients, consultants, councils and other public organisms.

Vast experience on problem solution specially on site work, dealing successfully with negotiations and delivering work on time and within budget.

Proven track record in leading design/ build courses and projects, having achieved many built projects for rural communities

Extensive experience in architectural education, implementation of innovative teaching methodologies, participated in multidisciplinary research projects, excellent skills in team coordination achieving consensus in courses coordination and campus management of resources.

Effective in establishing relationship with industry partners, raising funds from different sources to delivered completely finished projects.

ACADEMIC EXPERIENCE

2014 – current, Assistant Professor, FADEU, Pontificia Universidad Católica de Chile

- Lecturer and coordinator “Introducción a la Construcción” Design/Build + Service Learning based unit of study.

2019: ARQ3718 Workshop Design Build, FADEU, Pontificia Universidad Católica de Chile

2018 – 2020, Architectural Science Review Book Review Editor

2013 Tutor, FADP University of Sydney, Australia.

2013: Architectural Technologies 3, undergraduate, FADP University of Sydney, Lecturer and coordinator: Mr. Michael Muir

2013: Tutor, MARC5101 Advanced Technologies 2, postgraduate, FADP University of Sydney, Lecturer and coordinator: Dr. Francesco Fiorito.

2007 – 2011, Instructor, FADEU, Pontificia Universidad Católica de Chile.

- Instructor “Introducción a la Edificación y Tecnologías” Design/Build based unit of study.

PROFESSIONAL EXPERIENCE

2006 – current, Partner at Lira Arquitectos SPA, Santiago, Chile – www.liraarquitectos.cl

2012 - 2013 Collaborator (architectural designer), Derek Raithby Architecture PTY, Sydney, Australia - www.derekraithby.com.au

2003 - 2005, Project Architect, Christian de Groot Architects, Santiago, Chile.

Research/Academic Projects

- 2019 : Ayelén School Grandstand, International Workshop and Design/Build Project in suburban area of Rancagua, Chile.
- 2018 – 2019: La Estrella Church Master Plan and Bell Tower, Design/Build Project funded by La Estrella Community.
- 2017 – 2019: “Reacondicionamiento y ampliación de vivienda de interés social en altura. Desarrollo de una Metodología de evaluación, proyecto e intervención multidimensional para bloque 1010 y 1020 coordinator: Dr. © Francisco Chateau, FADEU Pontificia Universidad Católica de Chile.
- 2017 – 2018: Pumanque Community Centre, VI Region, Chile. Architect (liability), Design/Build Project for the 2017 central Chile bush fire affected towns. Funded by the FADEU, public policies department of Católica University, Municipal funds and material donations.
- 2017 – 2018: Patagonia Scientific Station, Design/Build Project funded by the Institute of Geography, Católica University.
- 2014: IEA Task 47, Non-residential retrofit of buildings.
- 2013: Adaptive facade systems/ biomimetics/ smart materials. Supervisor: Dr Francesco Fiorito, FADP University of Sydney
- 2007 - 2012: Bóveda Zollinger/ prototipo experimental/ viviendas de emergencia progresiva, FADEU Pontificia Universidad Católica de Chile.

Papers/Publications

- 2021: Schmitt, C. Arroyo, D. Lezaeta, B. Timber Structures in Rural Public Infrastructure - Design/Build Technological Education Applied to La Estrella Steeple Project, IBRAMEM 2020, Florianopolis, Brazil.
- 2020: Schmitt, C. Arroyo, D. Design/Build Technological Education Applied to Community-Based Projects, Comparative Study of Two Exercises for Rural Infrastructure in Chile. PLEA 2020, Planning Post-Carbon Cities, La Coruña, Spain.
- 2018: Schmitt, C. Arroyo, D. Design/Build Technological Architectural Education In Chile Participative Bottom-Up Design Approach In The Course “Introducción a la Construcción” , Annual Design Research Conference, University of Sydney, Sydney, Australia.
- 2018: Arroyo, D. Schmitt, C. Timber In Design/Build Architectural Education In Chile Experiences From The Course “Introducción a la Construcción”, World Conference on Timber Engineering, Seoul, Republic of Korea.
- 2016: Fiorito, F., Sauchelli, M. Arroyo, D., Pesenti, M., Imperadori, M., Maserà, G., Ranzi, G. Shape Morphing Solar Shadings: a review, Renewable and Sustainable Energy Reviews 55(2016)863–884 Pergamon Elsevier Science. URL: <http://www.sciencedirect.com/science/article/pii/S136403211501165X>
- 2015: Kalz, D. Arroyo, D. Hyde, R. Groenhout, N. Dankl, C. Ferhatbegovic, T. Mach, T.Brandl, D.Lerch, W.Kautsch, P. Zimmer, S. Ruisinger, U. Holper, S. Grobbauer, M. Rose, J.Engelund Thomsen, K. Jakobiak, R.Reiss, J. Dinkel, A.Köhler, B.Coydon, F.Winiger, S.Costanzo, E. Pansa, G.Poli, T. Mysen, M. Svensson, A. Salvesen, F. Shc Task 47: Renovation of Nonresidential Buildings Towards Sustainable Standards Subtask C: Assessment of Technical Solution and Operational Management In Case Studies, https://www.ieashc.org/data/sites/1/publications/SHC_Task47_STC_report_11SEP2015.pdf
- 2015: Haavik, T. Helgesen, Svensson, A. Groenhout, N. Arroyo, D. Constanzo, E. Mach, T. Dankl, C. Lang, G. Rose, J. Engelund Thomsen, K. Hilderson, W. Market change: Upgrading of the non-residential building stock towards nZEB standard. Recommendations to authorities and construction industry. Report nº T.47.B.1 task47iea-shc.org/publications
- 2014: Hyde, R. Arroyo, D. Groenhout, N. Barriers and Opportunities for Retrofitting PV Systems for integration to Commercial Buildings in Australia. Asia-Pacific Solar Research Conference, UNSW 2014.
- 2012: Schmitt, Arroyo, Vásquez, Torres. CIDUI International Congress on University Teaching and Innovation, Barcelona July, 2012, Expanding the possibilities of the methodology Design-Build applied to architecture, The case of the course of Introduction to the Building and Technologies and construction of structural prototypes in context of scarce resources.
- 2009: Cuadernos de la Técnica vol. 3 – MODULOS, ARQ Editions, Pontificia Universidad Católica de Chile
- 2008: Cuadernos de la Técnica vol. 1 – LUCES, ARQ Editions, Pontificia Universidad Católica de Chile

Seminars/ Conferences/ Wokshops/ Expert Meetings

2020: Schmitt, C. Arroyo, D. Design/Build Technological Education Applied to Community-Based Projects, Comparative Study of Two Exercises for Rural Infrastructure in Chile. PLEA 2020, Planning Post-Carbon Cities, La Coruña, Spain.

2018: Schmitt, C. Arroyo, D. Design/Build Technological Architectural Education In Chile Participative Bottom-Up Design Approach In The Course "Introducción a la Construcción" , Annual Design Research Conference, University of Sydney, Sydney, Australia.

2018: III Congreso Interdisciplinario De Investigación en Arquitectura, Diseño, Ciudad y Territorio. FADEU, Pontificia Universidad Católica de Chile. El Método Design/Build en el Aprendizaje de Tecnologías de Edificación - Caso de Estudio: Curso "Introducción a la Construcción" y el Proyecto Campanario de La Estrella.

2018: COMAD Fair, Conferencia Nacional De La Madera, Coronel VIII Region, Chile. Método Design/Build en el aprendizaje de tecnologías de edificación en madera. Experiencias del curso "Introducción a la construcción"

2018: Annual Design Research Conference, Sydney, Australia, Design/Build Technological Architectural Education In Chile Participative Bottom-Up Design Approach In The Course "Introducción a la Construcción"

2015: Architecture Workshop in partnership with Universidad Iberoamericana de México, FADEU Pontificia Universidad Católica de Chile, Santiago, Chile.

2014: Asia Pacific Solar Research Conference, UNSW.

2013-2014: IEA Task 47 expert meeting - Non-residential retrofit of buildings, Sydney, Australia, Stuttgart, Germany.

2011: Sweden/ Chile business meeting, Lira Arquitectos SPA, ÅF consultants, Stockholm, Sweden.

2010: Project exhibited at Chilean Pavilion, Lira Arquitectos SPA, Architecture Bienale, Venice , Italy.

2001: Architecture Week, ITESO, Guadalajara, México.

EDUCATION

Master of Design Science, 2012 – 2013 Building Services + Sustainable Design, University of Sydney

Glenn Murcutt Master Class 2013, Architecture Foundation Australia

Diploma Digital Architecture, 2003, Pontificia Universidad Católica de Chile (PUC)

Architect Graduate Degree, 2003 - Pontificia Universidad Católica de Chile (PUC)

Architecture Licensure (Bachelor), 2003 - Pontificia Universidad Católica de Chile (PUC)

International Student Exchange Program, 2000 - Oxford Brookes University, UK

LANGUAGES

Spanish native, English fluent oral and written

AWARDS/ SCHOLARSHIPS/ GRANTS

2019 – VRA PUC Chile, Funds for international meetings, Design/ Build Workshop

2013 - David Rowe Memorial Prize in Building Services, FADP University of Sydney, Australia

2013 - Dean ´s List, FADP University of Sydney, Australia

2012 - Bienal de Arquitectura, Santiago Chile (proyecto seleccionado)

2011 - Becas Chile para cursar Magister en el extranjero, Universidad de Sydney, Australia

2012 - International House University of Sydney Ian Hudson Scholarship

2012 - International House University of Sydney Women ' s Committee Scholarship

2012 - International House University of Sydney Rosalie McCutcheon Scholarship

2010 – Bienal de Arquitectura Venecia, Italia (proyecto seleccionado)

2003 – Excelencia académica, PUC

1999 – Segundo Lugar, Concurso Philips iluminación

PERSONAL DATA

Date of Birth:14 Julio, 1977

Nationality: Chilean