

Felix Raspall

Profesor Adjunto e Investigador, Universidad Torcuato di Tella
FRA Arquitectura, Fundador
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EDUCACIÓN

Doctor en Diseño, disertación: “Design with Material Uncertainty”. Marzo 2015.
Harvard University, Graduate School of Design

Magister postprofesional en Arquitectura. Agosto 2010
Yale University, School of Architecture

Arquitecto, Marzo 2004
Universidad de Buenos Aires

ANTECEDENTES ACADÉMICOS

Universidad Torcuato di Tella
Profesor Adjunto con dedicación exclusiva, desde Marzo 2026

Universidad Católica Argentina, Argentina
Profesor Titular, Agosto a Diciembre 2025
Investigador, Agosto a Diciembre 2025

Universidad Adolfo Ibáñez, Chile
Profesor Asociado, Septiembre 2019 a Agosto 2025
Director de Investigación, Agosto 2022 a Agosto 2025
Director del programa Magister en Ciencias del Diseño, Enero 2021 a Enero 2022

Singapore University of Technology and Design, Singapur
Profesor Visitante, Enero 2020 – Septiembre 2020
Profesor Asistente, Septiembre 2015 a Agosto 2019

Zhejiang University, China
Profesor Visitante, Verano 2016, Otoño 2017, Otoño 2018

Harvard University, Estados Unidos
Investigador posdoctoral, 2015
Co-instructor, Otoño 2014
Teaching Fellow, Otoño 2012, Primavera 2013 y Otoño 2013

Graz University of Technology, Austria
Profesor Visitante, Primavera 2013

Universidad de Buenos Aires
Docente con grupo a cargo, 2004-2007
Ayudante, 2000-2004

EXPERIENCIA PROFESIONAL

AIR Lab, Co-fundador. Desde 2016

AIR Lab (Architectural Intelligence Research Laboratory) es un laboratorio de investigación en diseño enfocado en la sostenibilidad en arquitectura mediante tecnologías digitales avanzadas}

FRA Arquitectura. Fundador, desde 2004

Diseño de proyectos arquitectónicos de manera independiente y en colaboración. Proyectos construidos seleccionados: Casa en Pinamar (en ejecución), Oficinas Innova (en ejecución), Casa Castroviejo (2024), El Florecer del Mercado (2023), Casa Benna (2022), Esmeralda Hanok (2023), Casa en Pilar (2021), Casa ABT (2015), Casa Fresno (2011), Viviendas en Fernando (2008), Barceló Travel Buenos Aires (2006).

Pelli-Clarke-Pelli Architects 2010-2011, Diseñador Arquitectura

Participación en proyectos residenciales de gran escala y concursos internacionales de arquitectura.

Takenaka Komuten. Osaka, Japón, Junio - Agosto 2009. Pasante en arquitectura

Asistencia en el departamento de diseño en proyectos institucionales de alcance internacional.

MSGSSS Arquitectos 2005-2007 y 2001-2003. Diseñador arquitectónico

Participación en el diseño de numerosos edificios residenciales, comerciales e infraestructurales de gran escala en Argentina.

PREMIOS

Fondo Metropolitano de Diseño 2026, Gobierno de la Ciudad de Buenos Aires. Proyecto: Xilema, estructuras en bambú e impresión 3D.

Corporación Chilena de la Madera (CORMA), Premio a la Innovación en Madera 2024. Proyecto: *WoodClip*.

Mejor docente de posgrado del año 2023, Universidad Adolfo Ibáñez

Fondo Metropolitano de Diseño 2021, Gobierno de la Ciudad de Buenos Aires. Proyecto: El florecer del Mercado. Rol: Diseñador arquitectónico.

Concurso Parque Urbano Salinas, Valparaíso 2022. Tercer premio. Asesor en diseño digital. En colaboración con PAUR

SG Mark Award 2022. Design Business Chamber Singapore Mención Especial. Proyecto: *DB Schenker Upcycle Lab*.

INDE Design Award 2022. Seleccionado entre los finalistas. Proyecto: *Chandelion by Chanel*

Mejor docente de posgrado del año 2021, Universidad Adolfo Ibáñez

Mejor docente de grado del año 2021, Universidad Adolfo Ibáñez

A'Design Award 2021. Golden Award. Proyecto: *AITable*

IF Design Award 2021. Finalista.

SIT Furniture Design Award 2021. Ganador. Proyecto: *AITable*

German Design Award 2021. German Ministry of Economics and Technology. Primer premio. Proyecto *AirMesh*.

Autodesk Residency Program. Proyecto: *Printed Architectures : Timber*

Resources, Conservation & Recycling, Best paper Award 2020.

Golden Pin Design Award 2020. Ganador. Proyecto: *AirMesh*.

Dezeen award 2020. Seleccionado para la categoría Small Pavilions. Proyecto: *AirMesh*.

Architizer A+Award 2020. Ganado ren categoría pabellones culturales. Proyecto: *AirMesh*.

Iconic Design Award. German Design Council. Ganador. Proyecto: *AirMesh*.

SG Mark Award. Design Business Chamber Singapore. Ganador. Proyecto: *Timescapes*.

SG Mark Award. Design Business Chamber Singapore. Ganador. Proyecto: *AirMesh*.

Inde Award 2020. Seleccionado en categorías: *The Design Studio* and *The Influencer*

President Design Award 2020. Singapur. Ganador. Proyecto: *AirMesh*.

German Design Award 2019. German Ministry of Economics and Technology. Ganador. Proyecto: *AirTable*.

Singapore Design Award 2019. Design Business Chamber Singapore. Finalista en categorías Multidisciplinary Design y Placemaking Design.

Rethinking The Future 2018, Architecture, Construction and Design Award. Segundo premio en categoría Pop-up and Temporary Built. Proyecto: *(ultra) light network*.

SG Mark Award 2018. Design Business Chamber Singapore. Ganador. Proyecto: *AirTable*.

SG Mark Award 2018. Design Business Chamber Singapore. Ganador. Proyecto: *OH Platform*.

Harvard University Digital Design Prize 2015. Ganador. Proyecto: *Design with Material Uncertainty*.

Harvard University Peter Rice Prize 2012. Ganador. Proyecto: *Tectonic Tessellations*.

Harvard University Center for the Environment Graduate Consortium 2013-2014. Miembro del Graduate Student Consortium.

David Rockefeller Center for Latin American Studies. Miembro del Graduate Student Associate 2011-2012

Beca Amalia Lacroze de Fortabat. Universidad de Harvard. Adjudicada 2011-2013

Winchester Prize 2010 Yale University. Ganador del premio más prestigioso de la Escuela de Arquitectura

Beca Cesar Pelli. Yale University Adjudicada 2009

Premio Investigador Joven 2013. Association for Computer-Aided Architectural Design CAADRIA. Ganador

Beca Master Fulbright. Adjudicada 2008-2010

Diploma de Honor. Universidad de Buenos Aires, 2004

Premio al Mejor Estudiante 2004. Consejo Profesional de Arquitectura y Urbanismo. (1/650)

Beca Completa para el Programa "Mercados Informales en La Paz" 2003, Universidad Católica Boliviana. Adjudicada.

IDIOMAS

Español (nativo), Inglés (avanzado), Italiano (avanzado), Coreano (básico).

PUBLICACIONES

Libros y Capítulos

Carlos Bañón and Felix Raspall, "3D Printing Architecture - Workflows, Applications, and Trends", SpringerBrief in Architectural Design and Technology. <https://doi.org/10.1007/978-981-15-8388-9>

Velu R. and Raspall F. 3D-printing technologies and composite materials for structural applications, Book Chapter in *Green Composites for Automotive Applications*, 2019. <https://doi.org/10.1016/B978-0-08-102177-4.00008-2>

Raspall, Felix. "Design with Material Uncertainty". In *Modelling Behaviour*. Springer, 2015. https://doi.org/10.1007/978-3-319-24208-8_27

Disertación

Raspall, Felix. "Design with Material Uncertainty : Responsive design and fabrication in architecture". Doctoral Dissertation. Harvard University, 2015.

Artículos en Revistas Indexadas

Raspall, F., Araya, S., Pazols, M., Valenzuela, E., Castillo, M., & Benavides, P. (2025). Wire Arc Additive Manufacturing for Widespread Architectural Application: A Review Informed by Large-Scale Prototypes. *Buildings*, 15(6), 906.

<https://doi.org/10.3390/buildings15060906>

Raspall, Felix, and Carlos Bañón. "Large-Scale 3D Printing Using Recycled PET. The Case of Upcycle Lab@ DB Schenker Singapore." *The International Conference on Computational Design and Robotic Fabrication*. Singapore: Springer Nature Singapore, 2022. https://doi.org/10.1007/978-981-19-8637-6_37

Bañón Carlos y Felix Raspall, 3D printing floating modular farms from Plastic Waste, In *Materials Today Proceedings*, 2022. <https://doi.org/10.1016/j.matpr.2022.09.591>

Mohit Arora, Felix Raspall, Lyle Fearnley, Arlindo Silva, Urban mining in buildings for a circular economy: Planning, process and feasibility prospects, In: *Resources, Conservation and Recycling*, Volume 174, 2021, <https://doi.org/10.1016/j.resconrec.2021.105754>

Mohit Arora, Felix Raspall, Lynette Cheah, and Arlindo Silva (2020). "Buildings and the Circular Economy: Estimating Urban Mining, Recovery and Reuse Potential of Building Components". In: *Resources Conservation and Recycling*, 154, 104581. <https://doi.org/10.1016/j.resconrec.2019.104581>

Venkatesan, C., Velu, R., Vaheed, N., Raspall, F., Tay, T. E., & Silva, A. Effect of process parameters on polyamide-6 carbon fibre prepreg laminated by IR-assisted automated fibre placement in *The International Journal of Advanced Manufacturing Technology* (2020) <https://doi.org/10.1007/s00170-020-05230-z>

Velu, R.; Calais, T.; Jayakumar, A.; Raspall, F. A Comprehensive Review on Bio-Nanomaterials for Medical Implants and Feasibility Studies on Fabrication of Such Implants by Additive Manufacturing Technique. *Materials* 2020, 13, 92. <https://doi.org/10.3390/ma13010092>

Rajkumar Velu, Nahaad Mohammed Vaheed, Chadurvedi Venkatesan, Felix Raspall, Murali Krishnan "Experimental investigation on fabrication of thermoset prepreg composites using automated fibre placement process and 3D printed substrate" in *Procedia CIRP* 2019 <https://doi.org/10.1016/j.procir.2019.09.049>

Rajkumar Velu, Nahaad Vaheed, Murali Krishnan Ramachandran and Felix Raspall , "Experimental investigation of robotic 3D printing of high-performance thermoplastics (PEEK): a critical perspective to support Automated fibre placement process", in *The International Journal of Advanced Manufacturing Technology* (2019). <https://doi.org/10.1007/s00170-019-04623-z>

Arora, M., Raspall, F., Cheah, L., Silva, A., Residential building material stocks and component-level circularity: The case of Singapore. *Journal of Cleaner Production* 216 (2019) 239-248. <https://doi.org/10.1016/j.jclepro.2019.01.199>

Raspall F. and Velu R. Fabrication of complex 3D composites by fusing Automated fibre placement (AFP) and Additive manufacturing (AM) technologies" in *Advanced Manufacturing: Polymer and Composites Science*. (2018) <https://doi.org/10.1080/20550340.2018.1557397>

Raspall, Felix. "A procedural framework for design to fabrication". In *Automation in Construction Special Issue: Design to Fabrication*. Elsevier, 2015. <https://doi.org/10.1016/j.autcon.2014.12.003>

Raspall, Felix. "Digital-material feedback: Extending intuition into the production process". In *Graz Architecture Magazine (GAM)* 10 (2014):184-195.

Artículos de Congresos

Felix, Raspall, Maximiliano Pazols, Ulises Campodonico, Agustín Hurtado and Nicolás Pereda. Development of a Wood Frame Structure with 3D Printed Clip Joints: A Design Studio Exploration, in *SIGRADI* 2024.

Pazols, Maximiliano; Raspall, Felix; "Terra Fibrosum: Continuous fibers reinforcement system for robotized 3d printing with earth for architecture." , p. 1394-1405 . In: . São Paulo: Blucher, 2024. ISSN 2318-6968, DOI 10.5151/sigradi2023-374

Raspall, Felix; Karich, Juan Cristobal; Pazols, Maximiliano; "Process Parameters and Manufacturing defects for Large Scale Additive Manufacturing using Recycled Polymer Pellets", p. 575-584 . In: . São Paulo: Blucher, 2024. ISSN 2318-6968, DOI 10.5151/sigradi2023-164

Chávez Valdés, Florencia; Delgado Smulders, María Constanza; Karich, Juan Cristóbal; Raspall, Felix; "Design of a Low-cost Extruder for Large Scale Additive Manufacturing with Earth-based Pastes", p. 302-313 . In: . São Paulo: Blucher, 2024. ISSN 2318-6968, DOI 10.5151/sigradi2023-165

Fredes, Claudio and Felix Raspall. "Decoding the Evolution of Digital Design and Manufacturing through Data Scrapping and Digital Bibliometrics". In *Proceedings of CAADRIA 2023*. 2023.

Amtsberg, Felix, Caitlin Mueller, and Felix Raspall. "Digital-Material-Matching Digital Fabrication and Natural Grown Resources for the Development of Resource Efficient Structures." The International Conference on Computational Design and Robotic Fabrication. Springer, Singapore, 2021. https://doi.org/10.1007/978-981-16-5983-6_30

Raspall, Felix and Carlos Bañón. "Large-scale 3D printing using recycled PET. The case of Upcycle Lab @ DB Schenker Singapore". In Proceedings of the 2021 DigitalFUTURES. 2021.

Wang, Sihan, Hui Ping Toh, Felix Raspall, and Carlos Banon. "Detailing the Configuration to Perform Better Clay Printing.", Proceedings of CAADRIA 2020,

Raspall F., Carlos Banon, Sourabh Maheshwary. Timescapes: Design and Additive Manufacturing Workflows for freeform, ornamental architectural surfaces, in SIGRADI 2020. <https://doi.org/10.5151/sigradi2020-42>

S. Wang, K. Huang, Z. Huang, M. Sodano, W. Xu and F. Raspall, Fabrication of Topology Optimized Concrete Components Utilizing 3D Printed Clay Mould, in *Proceedings of the IASS Symposium*, 2019, IAAC, Barcelona, España

Sourabh Maheshwary, Felix Raspall and Simant Verma, Optimized structure for Ice Stupa - Architecture that supports nature to resist climate change, in *Proceedings of the IASS Symposium*, 2019, IAAC, Barcelona, España

C Banon, F Raspall and H.P. Toh, AIRMESH: Inhabitable Stainless-Steel 3D Printed Space, in *Proceedings of the IASS Symposium*, 2019, IAAC, Barcelona, España

C. Banon, F. Raspall and H. Toh, Into lightness: Furniture as Proxies for radical experimental Structural Design using Advanced Manufacturing, in *Proceedings of the IASS Symposium*, 2019, IAAC, Barcelona, España

Hassani, V., Khabazi, Z., Raspall, F., Banon, C., Rosen, D.W., "Form-Finding and Structural Shape Optimization of the Metal 3D-Printed Multi-Branch Node with Complex Geometry," CAD Conference, Singapore, June 24-26, 2019

Raspall, Felix, Carlos Bañón, and Jenn Chong Tay, "AirTable : Stainless steel printing for functional space frames", in *Intelligent and Informed - Proceedings of the 24th International Conference on Computer-Aided Architectural Design Research in Asia, CAADRIA 2019*

Wang, S., Conti, Z.X., Raspall, F. Optimization of clay mould for concrete casting using design of experiments, in *Intelligent and Informed - Proceedings of the 24th International Conference on Computer-Aided Architectural Design Research in Asia, CAADRIA 2019*

Velu R., Raspall F. and Vaheed N. Fabrication of complex 3D composites by fusing Automated fibre placement (AFP) and Additive manufacturing (AM) technologies in *Proceeding of the 11th Asian-Australasian Conference on Composite Materials*, Cairns Australia, 2018

Trummer, A., Bechthold M., Andreani S. and Raspall F. Novel Tectonics: Ceramic-Concrete Composite Structure, in *Proceedings of the IASS Symposium*, 2018, MIT, Boston, USA

Raspall F., Amtsberg F and Banon C. 3D Printed Space Frames, in *Proceedings of the IASS Symposium*, 2018, MIT, Boston, USA

Raspall, Felix and Carlos Bañón, "Towards Functional Space Frames", *Proceedings of CAADRIA 2018*, Tsinghua University, Beijing.

Amtsberg, Felix and Raspall, Felix, "Bamboo^3", *Proceedings of CAADRIA 2018*, Tsinghua University, Beijing.

Raspall, Felix and Carlos Bañón, "vMESH : How to print Architecture?", SIGRADI Proceedings 2016, Buenos Aires, Argentina.

Mohit Arora, Felix Raspall, Lynette Cheah and Arlindo Silva, Urban mining potential in built environments: Case study of building components recovery in Singapore, ISIE-ISSST Conference, Chicago

Raspall, Felix and Mohit Arora, Building from End-of-Life: An Alternative Approach for Low-Cost Urban Housing Building from End-of-Life: An Alternative Approach for Low-Cost Urban Housing, No Cost Housing Conference UN Habitat, 2016

Arora Mohit, Felix Raspall and Arlindo Silva, Mining the Urban Ore: Opportunities for Intervention in Resource Constrained Smart Cities, SDEWES, Lisbon, 2016

Raspall, Felix and Carlos Banon, "vMESH : How to print architecture?". In *Crowdthinking: Proceeding of SiGraDi 2016 Conference*, 2016.

Amtsberg F., Raspall, F and Trummer A. "Digital-Material Feedback in Architectural Design". In *Emerging Experience in Past, Present and Future of Digital Architecture*. Hong Kong, 2015.

Raspall, Felix, Felix Amtsberg, and Stefan Peters. "Material Feedback in Robotic Production: Plastic and Elastic Formation of Materials for Reusable Mold-Making". In *Rob/Arch 2014: Robotic Fabrication in Architecture, Art, and Design* New York: Springer, 2014.

Matias Imbern, Felix Raspall, and Qi Su. "Tectonic Tessellations: From Parametric Form-finding to Robotic Fabrication of Ceramic Shell Structures". In *Proceedings of the International Association for Shell and Spatial Structures Symposium (IASS) 2013* Wroclaw: 2013.

Raspall Felix, Matias Imbern, and Will Choi. "Adaptive tectonic systems: Parametric modeling and digital fabrication of precast roof assemblies toward site-specific design response". In *Adaptive Architecture: Proceedings of the 33rd Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA) Cambridge 24-26 October, 2013* pp. 327-336.

Raspall, Felix, Matias Imbern, and Will Choi. "Fisac Variations: An Integrated Design and Fabrication Strategy for Adaptable Building Systems". In *Open Systems: Proceedings of the 18th Conference on Computer Aided Architectural Design in Asia Singapore (CAADRIA) 15-18 May 2013*, pp. 55-64.

Imbern, Matias, Felix Raspall, and Qi Su. "Tectonic Tessellations: A digital Approach to Ceramic Structural Surfaces". In *Synthetic Digital Ecologies: Proceedings of the 32nd Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA) San Francisco 18-21 October, 2012*, pp. 315-321.

Edición de Jornales

MDPI Sustainability. Sustainable Buildings: Advances for Material Efficiency and Circular Economy in the Built Environment. Guest editor.

Revisión de Artículos

3D Printing and Additive Manufacturing, Journal Paper Reviewer, 2020

Automation in Construction, Journal Paper Reviewer, 2020

SIGGRAPH, Conference Paper Reviewer, 2013

Proyectos en Publicaciones de Diseño

Systems Upgrade, Actar, 2021. Features project: Fisac Variations

Landscape Design China, Special Edition: Digital Landscape, 2021

Inch Magazine. v27, Germany, 2021 inchbyinch.de

IW Magazine, Taiwan, 2020

Posco Newsroom, Korea, 2019

Detail, Germany

Dezeen.com

Platform 7 Actar GSD Harvard

Archdaily.com

PlataformaArquitectura.com

Designboom.com

Espacio y confort

Modern Lux Housing 2, China, 2014

Wallpaper Magazine Graduate Directory, UK, 2011

PROYECTOS DE INVESTIGACIÓN CON FINANCIAMIENTO

Terranova: Technology-driven construction in soil. Fondart. Fondo de Cultura de Chile. Coinvestigador - 2024-2025 (~15,000 USD).

Applications of WAAM for the Construction Industry in Chile. Fondecyt. Investigador Responsable. Agencia Nacional de

Investigación y Desarrollo (ANID)- 2023-2025 CLP 55,128,000 (~69,000 USD).

Chandelion - Design with Reclaimed Perfume Bottles. Investigador Responsable.
Consultoría de Diseño para Chanel. 2021-2022 S\$ 60,000.

HDB Vertical Farming System. Investigador Responsable.
Consultoría de Diseño para Netatech, Singapur. 2021-2022 S\$ 41,000

Urban Farming System. Investigador Responsable.
Consultoría de Diseño para City Developments Limited, Singapur. S\$ 18,000

Floating Farming System. Investigador Responsable.
Consultoría de Diseño para Netatech, Singapur. 2021-2022 S\$ 34,000

Sand Printed Molds for Prefabricated Concrete Components. Investigador Responsable.
Consultoría de Diseño para Keppel Corporation, Singapur. S\$ 34,000

Polymer Matrix Composites Programme WP 1-3: Multi-stage forming and AFP for high quality parts,
Investigador Responsable 2019, Colaborador 2020-2022. S\$ 631,800. National Research Foundation, Singapur

3DC. Digital Design and Manufacturing of 3D Composites
Digital Manufacturing and Design Centre, SUTD, Singapur. Investigador Responsable 2017-2019, Colaborador 2020. S\$ 1,500,000

3D Printing Architecture.
SUTD-ZJU Research Collaboration. Investigador Responsable. 2017 – 2019. S\$ 752,000

Green wall design for concrete 3D printing
IDEA Grant. SUTD, Singapur. Investigador Responsable. 2019. S\$ 10,000

3D Printed Customizable Deployable Structures
National Additive Manufacturing Innovation Cluster, Singapur. Investigador Responsable, 2019. S\$24.600

HCCP : Hybrid Concrete Clay Printing
National Additive Manufacturing Innovation Cluster. Investigador Responsable, 2019. S\$28.800

Advanced Bamboo Structures using 3D Printed Components
IDEA Grant, SUTD, Singapur. Investigador Responsable. 2018. S\$ 10,000

Uncertainty as Design Method.
SUTD Startup Grant, Singapur. Investigador Responsable. 2016-2018. S\$ 100,000

Promoting Low-Cost Housing through Urban Mining
International Design Centre, SUTD, Singapur. Investigador Responsable 2017-2018 S\$ 100,000

Artificial Design
International Design Centre, SUTD, Singapur. Co-Investigador 2016-2018 S\$ 440,000

Design with Material Uncertainty
Investigación Doctoral, Harvard University. 2011-2015

Waste to Energy in Architecture
Harvard University Materials Processes and Systems Group. Investigador postdoctoral, 2015

Protoceramics
Harvard University Materials Processes and Systems Group, Director de Proyecto, 2014

C-Shell Ceramic Shell Structures
Harvard University Materials Processes and Systems Group, Director de Proyecto, 2013

Centro de Investigación Hábitat y Energía, Universidad de Buenos Aires. Asistente de Investigación 2006-2008

PARTICIPACIÓN EN CONFERENCIAS Y CHARLAS

Organización de Conferencias:

Data across Scales Conference. Harvard University, Graduate School of Design. Abril 2015. Organizador, junto a Özlem Altinkaya y Joëlle Bitton

Presentación por Invitación:

Instituto de Arquitectura Avanzada de Catalunya. 2023 Presentación: *Additive manufacturing for sustainable architecture*
Digital Futures 2022 Spanish. Presentación: *Diseño e Investigación Material*

Chile Diseño 2021. Encuentro Saberes del Futuro. Presentación: *Diseño digital e impresión 3D para una economía circular*

Harvard University Graduate School of Design 2021. Presentación: *Design with Material Uncertainty*

Universidad Católica de Temico 2020. Presentador en mesa redonda. Presentación: The role of technology in the current cultural landscape

DesignLab Ciclo de Charlas. Presentación: "Pensamiento digital, inteligencia material"

ONG&ONG BeyondX 2019: Experience Digital Event. Presentador invitado. Presentación: *Artificial Intelligence and Skyscraper*

Singapore Venice Biennale 2019 @ Singapore. Presentación en *No More Free Space Design Forum*.

Singapore Urban Design Festival 2019. Presentador invitado. Presentación: *Architecture Out-of-Scrap : built with salvaged HDB's components*.

Titech Innovation Symposium 2018, Tokyo Institute of Technology. Presentador invitado. Presentación: *Integrated Design Methods*

Singapore Urban Design Festival 2018. Presentador invitado. Presentación: *Sustainable Bamboo Architecture*.

Singapore Polytechnic Guest Speaker Series 2018. Presentador invitado. Presentación: *Innovation Design and Construction*.

Design Affair 2018. Sustainability in Urbanization: Fact or Fiction. Presentador invitado. Presentación: *Technology, Architecture and Sustainability*.

Presentaciones en Conferencias:

SIGRADI 2024.

SIGRADI 2023.

Digital Futures 2022 CDRF Conference. Presentación: *Large-scale 3D printing using recycled PET*

SIGRADI 2020, Universidad Pontificia Bolivariana en Medellín, Colombia. Presentación: *Timescapes: Design and Additive Manufacturing Workflows for freeform, ornamental architectural surfaces*.

CAADRIA 2018, Tsinghua University, Presentación: *Towards Functional Space Frames*.

Inside 3D Printing 2017. 3D Printing Architecture. Singapore. Presentación: *3D Printing Architecture*.

SIGRADI 2016. Presentación: *vMesh*

Design Modelling Symposium Conference, October 2015. Presentación: *Design with Material Uncertainty*.

Rob|Arch 2014, Taubman College University of Michigan. May 2014. Presentación: *Informal Material Formations: Design with Material Uncertainty*.

Metropolis Non-Formal Symposium. UN Habitat. Munich, Germany. November 2013. Presentación: *Informal Methods in Material and Digital Production*.

ACADIA 2013, Adaptive Architecture. Cambridge, ON, Canada. October 2013. Presentación: *Adaptive tectonic systems: Parametric modeling and digital fabrication of precast roof assemblies toward site-specific design response*.

CAADRIA 2013, Open Systems. Singapore. May 2013. Presentación: *Fisac Variations: An Integrated Design and Fabrication Strategy for Adaptable Building Systems*. Segundo premio al major paper

ACADIA 2012: Synthetic Digital Ecologies. San Francisco. October 2012. Presentación: *Tectonic Tessellations: A digital Approach to Ceramic Structural Surfaces*.

Presentación de Posters

International Conference of Design and Technology (ICTD) 2020, 3D Printing Architecture: Digital Design and Manufacturing of bespoke Space Frame using Metal Additive Manufacturing. Carlos Banon, David Rosen, Tao Jiang, Toh

Hui Ping, Felix Raspall

TRABAJO CURATORIAL Y PARTICIPACIÓN EN EXHIBICIONES

La Plata en Flor. Diseño del pabellón central de la feria. 2024

National Design Center Singapore 2023. Exhibición: *Circular Futures: Next Gen*.

Fiesta Nacional de la Flor. Diseño del pabellón central de la feria. 2023

Fiesta Nacional de la Flor. Diseño del pabellón central de la feria. 2022

BuildTech Asia 2022. NAMIC Stand. Exhibición: *AIR Lab 3D Printing Architecture*

Archifest 2021, Singapore Institute of Architects. Exhibición: *AirLab x Circularity*

London Design Biennale 2021. Exhibición: *Pop-up ecosystem* (en colaboración con MUDD Architects)

Biennial de Arquitectura de Venecia 2020. Exhibición: *AirMesh* (en el pabellón de España).

SG Mark 2019 Singapore National Design Centre and Changi Airport Terminal, Exhibición: *AirTable* y *OH Platform*.

Biennial de Arquitectura de Venecia 2018. Exhibición: *OH Platform* (en el pabellón de Singapur).

Biennial de Arquitectura de Venecia 2018. Exhibición: *(Ultra)light network* (en el pabellón de Singapur)

BEX / MCE Asia 2018. Exhibición: *AirTable*

Milan Design Week 2018. Exhibición: *Sombra Verde*

Seoul Biennale 2017. Exhibición: *White Spaces*. Rol: Diseño del Pabellón.

Gallery 224. Harvard Ceramics Program. Exhibición: *Ceramic Material Formations*. Rol: Curador.

Cevisama/Transhitos 2015, Valencia, España. Exhibición: *Protoceramics*.

Cevisama/Transhitos 2014, Valencia, España. Exhibición: *Floating Ceramic Shell*.

Harvard GSD Platform 5 Exhibition 2013. Exhibición: *Fisac Variations*

Harvard GSD "Making things" 2012. Curador de la muestra.

Harvard GSD "Making things" 2012. Exhibición: *Digital Ceramics*, *Ceramic Tessellations* y *Fisac Variations*.

YSOA Digital Media Exhibition 2011. Exhibición: *Yacaré Chaise-lounge* y *East-Western Divan Concert Hall*

Beijing Architectural Biennale 2010. Exhibición: *Gemini double chair*

International Contemporary Furniture Fair, ICFF 2010, New York. Exhibición *Gemini double chair*

Biennial Panamericana de Arquitectura de Quito, Ecuador. Exhibición: *Conjunto de Vivienda Sustentable en Patagonia*

Centro de Exhibiciones de la Municipalidad de La Paz, Bolivia. Exhibición: *Mercados Virtuales*

EXPERIENCIA DOCENTE

Cursos Dictados:

Sistemas Digitales 1, 2025
Carrera de Arquitectura
Universidad Católica Argentina

Taller de Experimentación y Exploración Proyectual 2, 2025
Carrera de Arquitectura
Universidad Católica Argentina

Taller de Producción y Desarrollo Tecnológico 4, 2025
Licenciatura en Diseño
Universidad Católica Argentina

Taller de Manufactura Aditiva, 2025, 2024, 2023
Magister en Innovación y Diseño
Universidad Adolfo Ibáñez

Taller de Investigación, 2025, 2024, 2023
Magister en Ciencias del Diseño
Universidad Adolfo Ibáñez

Seminario de Fabricación Aditiva, 2025, 2024, 2023
Magister en Innovación y Diseño
Universidad Adolfo Ibáñez

Taller de Diseño de Espacios, 2022
Ingeniería en Diseño
Universidad Adolfo Ibáñez

Programación para el Diseño. 2025, 2024, 2023, 2022
Ingeniería en Diseño
Universidad Adolfo Ibáñez

Modelación 2D y 3D. 2023, 2022
Ingeniería en Diseño
Universidad Adolfo Ibáñez

Procesos de Fabricación en la Industria. 2023, 2022
Ingeniería en Diseño
Universidad Adolfo Ibáñez

Terra Nova : Construcción en Tierra, 2022
Workshop de 6 días
Heatherwick Studio + Universidad Adolfo Ibáñez

Workshop de Inteligencia Material. 2022, 2021, 2020 y 2019
Magister en Ciencias del Diseño
Universidad Adolfo Ibáñez

Taller de Diseño de Productos. 2021 y 2020
Ingeniería en Diseño
Universidad Adolfo Ibáñez

Fabricación Avanzada. 2021, 2020 y 2019
Magister en Innovación y Diseño
Universidad Adolfo Ibáñez

Fabricación Digital. 2021 y 2020
Ingeniería en Diseño
Universidad Adolfo Ibáñez

Micro-interventions. Big challenges - Small Projects, 2021
Workshop
Universidad de Monterrey + Universidad Adolfo Ibáñez

Taller de Ecología y Paisaje. 2020 y 2019
Magister en Innovación y Diseño
Universidad Adolfo Ibáñez

20.512: MArch Thesis. 2016 -2019
M.Arch. Semester 10.
Singapore University of Technology and Design

20.512: MArch Thesis Prep. 2016 - 2019
M.Arch. Semester 9.
Singapore University of Technology and Design

20.223 HTC 3: Contemporary Architecture between Technology, Science and Culture. 2016-2018
Undergraduate Semester 6
Singapore University of Technology and Design

20.501: Contested Territories. 2019
M.Arch. Semester 9 Option Design Studio
Singapore University of Technology and Design, in collaboration with ETH Centre Singapore

CC Robotics. 2018
Undergraduate seminar
Zhejiang University

20.501: Bamboo Revisions. 2018
M.Arch. Semester 9 Option Design Studio
Singapore University of Technology and Design

Encoding Bamboo. 2017
Undergraduate design studio
Zhejiang University

20.112: Bamboo in Formation. 2017
Undergraduate Semester 8 Option Design Studio
Singapore University of Technology and Design

Contemporary Architecture between Technology, Science and Culture. 2016
Undergraduate seminar
Zhejiang University

20. 501: Tectonic Spaces. 2016
M.Arch. Semester 9 Option Design Studio
Singapore University of Technology and Design

20.590 PhD Proseminar. 2015
Singapore University of Technology and Design

20.101: Architecture Core Studio 1. 2015
Undergraduate Semester 4
Course Instructor
Singapore University of Technology and Design

GSD 06137 Material Practice as Research. 2014
Co-Instructor
Harvard Graduate School of Design

Informal Material Formation, 2013
Workshop
Carnegie Mellon University

Faksimile. Spring 2013
M.Arch. Option Design Studio
Visiting Professor
Graz University of Technology

Big Scale. Spring 2013
M.Arch. Semester 9 Seminar
Visiting Professor
Graz University of Technology

GSD VIS02444 Landscape Material Design Practice and Digital Media. 2013
Master Level Seminar
Teaching Fellow
Harvard Graduate School of Design

GSD 0622 Energy in Architecture. 2013
Master Level Seminar
Teaching Fellow
Harvard Graduate School of Design

GSD SCI 0631700 Materials and Fabrication Processes, 2012
Master Level Seminar
Teaching Fellow
Harvard University Graduate School of Design

Taller de Arquitectura 3, 2008
Carrera de Arquitectura
Universidad de Buenos Aires

Teoría de la Arquitectura, 2003 – 2008 (Ayudante con Grupo a Cargo)
Carrera de Arquitectura.
Universidad de Buenos Aires

Dirección de tesis y mentorías

Investigadores Posdoctorales

Felix Amtsberg, Design with Organic Materials, 2018
Rajkumar Velu, 3D Composites Project, 2019

Dirección de Tesis de Doctorado

Sihan Wang, "Smart Rapid Casting Prefabrication of Geometrically Complex Architectural Concrete Components using Additively Manufactured Clay Formworks", Singapore University of Technology and Design, 2021
Mohit Arora, "Demolitions to Design: A Case for Circular Economy", Singapore University of Technology and Design, 2019
Michele Sodano, "Advancing Energy-Efficient Building Design Through Deep Learning Surrogate Models", (Director de Tesis durante 2018). Singapore University of Technology and Design, 2019

Dirección de Tesis de de Magister

Diego Sepúlveda, "Mycelium Prompts: Exploración Material del Micelio como Inteligencia Generativa", Universidad Adolfo Ibáñez, 2024
Martín Castillo, "Manufactura aditiva con descartes de acero mediante robótica avanzada", Universidad Adolfo Ibáñez, 2024

Pauline Brander and Diego Trucco, "Impresión 3D de mobiliario: optimización de proceso", Universidad Adolfo Ibáñez, 2024.

Christian Castro Muñoz and Luciano Pedreros Monterrosa "Fundamentos y Metodología Preliminar para la Estandarización de Mezclas de Barro en Construcción", Universidad Adolfo Ibáñez, 2024.

Andrea Jeffs "Prótesis Sensible con retroalimentación táctil asequible", Universidad Adolfo Ibáñez, 2023.

Florencia Chavez and Constanza Delgado "Low-cost Soil Printing Extruder", Universidad Adolfo Ibáñez, 2023.

María José Veas, "Recyclo", Universidad Adolfo Ibáñez, 2022.s

Max Pazols, "Sistema de Refuerzo de Fibras Continuas para Impresión 3d Robotizada De Arquitectura En Tierra", Universidad Adolfo Ibáñez, 2022.

Vaneza Caycho Ñuflo, "Carpintería Digital", Universidad Adolfo Ibáñez, 2022.

María José Veas, "Re-cyclo", Universidad Adolfo Ibáñez, 2022.

Javiera Echeverría, Constanza Fernández, Valentina Lagos, Francisca Moreno Jara, "ReUp Digital Manufacturing from C&D Waste", Universidad Adolfo Ibáñez, 2021.

Catalina Veliz, "Artesanía Dinámica", Universidad Adolfo Ibáñez, 2021.

Lucas Helle, "Dynamic terraforming through swarm robotics", Universidad Adolfo Ibáñez, 2020.

Benito Gonzalez, "Abstract Movements: Digital Fabrication through Deep Reinforcement Learning ", Universidad Adolfo Ibáñez, 2020.

Roberto Arancibia, "DOMAD Digital Design, Optimization and Manufacturing of lightweight structural part. Implementation on a drone frame", Universidad Adolfo Ibáñez, 2020.

Claudio Fredes, "Interactive Analytic Platform (PAI): convercences between design science and computer science", Universidad Adolfo Ibáñez, 2020.

Lau Zhi Hsien Josiah, "Future Processes in Curvilinear Bamboo Construction", Singapore University of Technology and Design, 2019. *Best Thesis Award 2019*

Jing Wen Soh, "The poetics of construction in bamboo architecture", Singapore University of Technology and Design, 2019.

Bryan Lim Wei Guo, "Dust to dust: Architecture of decay", Singapore University of Technology and Design, 2018. *Best Research Thesis 2019*

Tay Jing Zhi, "Big Data Participatory Design", Singapore University of Technology and Design, 2018.

Yu Jie Tan, "Stygmergic Landform", Singapore University of Technology and Design, 2018.

Joei Wee Shi Xuan, "Landfill Topographies", Singapore University of Technology and Design, 2018.

Keer Zhang, "Storing Culture: Reconfigurable Museum of Stored Artefacts", Singapore University of Technology and Design, 2017.

Xia Tian, "Breathing Architecture, Towards Passive Wind-Responsive Buildings", Singapore University of Technology and Design, 2016.

Tay, Jenn Chong, "Aftermath, drawing the floodline: Designing architecture to improve resiliency of disaster victims against future floods in Gua Musang, Malaysia", Singapore University of Technology and Design, 2016.

Lee Le Xiu Jean, "Parametric Concrete", Singapore University of Technology and Design, 2016.

Goh Yi Qian, "Interactive Equilibrium: Active-Bending Concept as Form-finding Design Strategies", Singapore University of Technology and Design, 2016.

Mentoría de Alumnos de Grado:

Jonathan Ng
 Muhammad Syahid Bin Mustapa
 Nabila Larasati Pranoto
 Naomi Marcelle Bachtiar
 Chen Ran

Participación en Comisiones de Cursos

Modelos Informáticos. Universidad Torcuato Di Tella, Buenos Aires, 2025
 Investigación Proyectual, Universidad de Buenos Aires, 2025
 Modelos Informáticos. Universidad Torcuato Di Tella, Buenos Aires, 2024
 Proyecto VI. Universidad Torcuato Di Tella, Buenos Aires, 2024
 Core Design Studio, Term 4, Singapore University of Technology and Design, 2021
 Introducción al proyecto Urbano. Torcuato Di Tella University, Buenos Aires, 2021
 Tesis Proyectual. Torcuato Di Tella University, Buenos Aires, 2021
 Introducción a las Construcciones. Torcuato Di Tella University, Buenos Aires, 2020

Mapas y patrones. Torcuato Di Tella University, Buenos Aires, 2020
Architecture Design Studio. University of Houston, 2014
Design Studio. Rhode Island School of Design, 2014
Architecture Studio. Northeastern University, 2014

SERVICIO ACADÉMICO

Comité de Evaluación Académica, 2024 a la fecha, Universidad Adolfo Ibáñez
Director de Investigación, 2023 a la fecha. Universidad Adolfo Ibáñez
Director del Magister en Ciencias del Diseño, 2021-2023, Universidad Adolfo Ibáñez
Comité de Selección de Nuevos Académicos, 2022 a la fecha, Universidad Adolfo Ibáñez
Comité de Admisiones MCD, 2022 a la fecha, Universidad Adolfo Ibáñez
Miembro del Consejo Académico de la Escuela de Diseño. 2021-2023, Universidad Adolfo Ibáñez
Workshop de Fabricación Abierto a la Comunidad. 2020, Universidad Adolfo Ibáñez
Comité de búsqueda docente 2018 –2019, Singapore University of Technology and Design
ASD Exhibition. Director – February 2016 – July 2019, , Singapore University of Technology and Design
Open House 2019. Diseñador de la exhibición principal, Singapore University of Technology and Design
Grad Show 2018: Makerspace, Mentor del Proyecto. Singapore University of Technology and Design
Open House 2018. Diseñador de la exhibición principal, Singapore University of Technology and Design
Grad Show 2017: Datascares, Mentor del Proyecto, Singapore University of Technology and Design
Grad Show 2016, Mentor del Proyecto, Singapore University of Technology and Design
Open House 2016 SUTD. Diseñador de la exhibición principal, Singapore University of Technology and Design
Comité de Admisiones, 2016-2019, Singapore University of Technology and Design
Charlas de Divulgación en Escuelas, 2016-2019, Singapore University of Technology and Design