

Dr ZAVOLEAS YANNIS PhD/ARCHITECT ENG. NTUA, MSc MIT, MArch UCLA
Senior Lecturer in Computational Design | School of Architecture & Design, Built Environment
University of New South Wales, Sydney, NSW, 2052, Australia
Phone number: +61(0)457674264 | email: Y.Zavoleas@unsw.edu.au
Website: <http://yzarch.wordpress.com>



NAME OF PERSON/DATE OF BIRTH: Yannis (Ioannis) Zavoleas / June 26, 1970.
NATIONALITY: Greek Citizen / Australian Permanent Resident.
LANGUAGES: Greek (native), English (proficient), French (fluent), German, Portuguese (basic).
PROFESSIONAL STATUS: Senior Lecturer in Computational Design, School of Architecture & Design, University of New South Wales, Australia.
Registered Architect Eng. as member of Technical Chamber of Greece, since 1996.
Ctrl_Space Lab research partner & co-founder, since 2012.
SPECIALIZATION: Computational Design, Architectural design methodology; interdisciplinary design research (focus on environmental structures, dynamic systems for socio-ecological & sustainable development); computation & creativity; dynamic simulation.
CURRENT & RECENT RESEARCH: Advanced Simulation Directed to Socio-Cultural and Environmental Factors into Design; Variation & Progression of Biological Systems & Sustainable Development, Adaptation in Architecture & Urban Design; Bio-Shelters. Resilient Structures & Schemes, Metabolic Functions; Bio-structuralism.

SHORT BIO

Dr Yannis Zavoleas explores the idea of digital media as "tools for thought," by also combining new technologies and interdisciplinary themes with core architectural discourse about theory and practice. Author of *Machine and Network as Structural Models in Architecture* (Futura 2013 – in Greek); co-editor *Surface: Digital Materiality and the New Relation between Depth and Surface* (EAAE 2013). Research outputs in architecture, theory, technology, computation, biodigital architecture, media, communications and art (Routledge, Thresholds, Nexus Network Journal, The International Journal of the Arts in Society, Biodigital Architecture & Genetics, KINE[SIS]TEM, ASA, CAADRIA, ECAADE). Advisory / editorial board for EAAE, ASA, CAADRIA, CommonGround, AEDES and Next Generation Building; Best PhD Thesis of 2011 (School of Architectural Engineering, National Technical University of Athens); Best Paper Award, 6th International Conference Geometry and Graphics Mongeometrija (Serbian Society for Geometry & Graphics SUGIG, Novi Sad 2018); PVC's Award for Excellence in Research Creative Works (Faculty of Engineering & Built Environment University of Newcastle, 2014); won one competition in interactive storytelling (SONY/MIT, 2001); awarded in two architectural competitions; has taught architectural design, digital media and design theory at University of New South Wales (since 2018), University of Cyprus (2018), The University of Newcastle (2013-2018), University of Patras (2008-2013) and Technical University of Crete (2004-2008); has also taught courses and seminars in design research and theory at The University of Applied Sciences and Arts, Dortmund, Germany (2016), University of New South Wales (2016) and Architectural Association London (2012); has organised several workshops in architectural design, theory and computation (Bio-Shelters, Re-morphing the Amorphous, Code AB-USE I&II, Digital Species, Un-built, Digital Materiality, EAAE Architectural Theory Group); presented in thirteen architectural exhibitions and three short-film festivals. Studied architectural design, theory and media at MIT (MSc, 2004), UCLA (MArch, 2000) and NTUA (PhD, 2011, professional degree, 1996).

EDUCATION PROFILE

Ph.D. in Architectural Design Theory, National Technical University of Athens (NTUA, 2011).
Announced "Best Study of the Year." Dissertation: *Machine & Network. Technology as Metaphor in Architecture*. Supervisor: Prof. Tournikiotis, P.
M.Sc. in Comparative Media Studies, Massachusetts Institute of Technology (MIT, 2004).
Research Thesis: *Representing, Replicating, Replacing. Dilemmas of Artistic Evaluation in the Media Age: Duchamp's Fountain & Its Changing Artifactual & Artistic Status*. Supervisor: Prof. Uricchio, W.
M.Arch. in Architectural Design, University of California, Los Angeles (UCLA, 2000).
Design Thesis Project: *Gallery of the Senses*. Supervisor: Prof. Lee, M.
Professional Degree in Architectural Engineering, School of Architecture (NTUA, 1996).

Design Thesis: *Transferring the Notion of Knowledge in Architecture: The Jewish Neighbourhood of Corfu*. Supervisors: Prof. Moraitis,K., Prof. Philippidis,D.

Research Thesis: *The Uncanny in Contemporary Architecture*. Supervisor: Prof. Tournikiotis,P.

High School Hellenic-American Educational Foundation, Athens College, GPA: 17.8/20.0 (class of '88).

Advanced studies in music Athens Conservatorium (1977-1985).

ACADEMIC EMPLOYMENT & PROFESSIONAL EXPERIENCE

Senior Lecturer in Computational Design School of Architecture & Design, University of New South Wales, Australia (since 2018).

Guest Professor Department of Architecture, University of Cyprus (2018).

Senior Lecturer in Architecture School of Architecture & Built Environment, The University of Newcastle, Australia (2013-2018).

Visiting Researcher University of New South Wales (UNSW) Sydney, Computational Design program. Project: Bio-shelters. Resilient Structures & Metabolic Functions (2016).

Visiting Professor Dortmund University of Applied Sciences and Arts, School of Architecture. Project: Advanced Design Research: Dynamic Simulation Techniques Assisting Creativity in Architecture (2016).

Assistant Professor (tenured) School of Architecture, University of Patras, Greece. Concentration: Architectural Design & Digital Media (2008-2016).

Assistant Professor School of Architecture, Technical University of Crete, Greece. Concentration: Architectural Design & Digital Media (2004-2008).

Teaching Assistant digital media workshop course, Comparative Media Studies, MIT (2003).

Research Assistant / Art Director *Games-to-Teach*, Comparative Media Studies, MIT/Microsoft (2002-2003).

Practicing Architect since 1996. Partner, Ctrl_Space Lab since 2012.

Production Services Technician SONY Imageworks, *Spiderman I* (Oscar nominated 2003 Special Effects), *ChubbChubbs!* (Oscar winner 2002 Short Animated Film). Trained in digital design & scripting (2001-2002).

Architect Designer Amphibian Arc Corporation, Los Angeles (2000).

Military Service Greek air force (1996-1998).

Intern Architect Ktenas,N., Kizis,Y., Gregoriades,V. architectural firms (1992-1996, 1998).

RESEARCH PROFILE

Dr Zavoleas' research publication record draws upon an interdisciplinary approach to architecture informed by new technologies related to computation, digital fabrication, dynamic simulation, digital media and theory of design in architecture. He often employs cross-scientific themes with references mainly from biology, presenting performative aspects then adapted to respond to architectural design aims. His outputs are summarised in the following items:

- two books, one authored entitled *Machine and Network as Structural Models in Architecture* and one edited entitled *Digital Materiality and the New Relation between Depth and Surface*;
- fifteen book chapters (Routledge, EAAE-ENHSA, The Royal Danish Academy of Fine Arts etc.);
- eight journal articles plus one currently in review (Thresholds, Nexus, DOMES, CommonGround etc.);
- eleven peer-reviewed conference paper publications (CAADRIA, eCAADe, ASA, IIT Haifa, ESARQ-UIC, Intelligent Environments etc.).

He has given over fifty lectures as invited speaker and participant for various scientific-related occasions. His theoretical and design work has been recognized and awarded internationally. He has presented design projects in thirteen exhibitions hosted by reputable institutions, such as Royal Institute of British Architects, London (2003), International Union of Architects (2003), Ministry of Culture, Cultural Olympiad, Madrid (2004). MIT (2004), UCLA (1999), DOMES Architectural Review exhibition (2013), Thessaloniki Municipal Hall (2013), SANA Achaia Chamber of Architects (2013), Onassis Cultural Centre (2012), Athens Byzantine & Christian Museum (2003 & 2008), Centre of Mediterranean Architecture, Chania Crete (2006), Cultural Centre of Nicosia (2003) and Technical Chamber of Greece, Athens (1997).

Books

Zavoleas,Y., Patsavos,N. (Eds.). *Surface. Digital Materiality and the New Relation between Depth and Surface*. Brussels & Athens: EAAE/AEEA & Futura (2013). ISBN: 9782930301464.

Zavoleas, Y. *Machine and Network as Structural Models in Architecture*, Athens: Futura, 351 pages (in Greek, 2013). ISBN: 9789609489317.

Book Chapters

Taylor, M., Zavoleas, Y. "From Retail Stores to Real-Time Stories: Displaying Change in an Age of Digital Manufacturing," in *Architectures of Display: Department Stores & Modern Display*, Lasc.A., Lara-Betancourt, P., Petty, M. (Eds.), Surrey: Routledge, pp.167-182 (2018). ISBN: 9781472468451.

Zavoleas, Y., "Architecture Beyond Materiality; or, A Transcendental Glimpse of Architectural Space," in *Perception in Architecture: Here and Now*, Perren, C., Mlecek, M. (Eds.), Cambridge Scholars Publishing, pp.196-206 (2015). ISBN13: 9781443872560.

Zavoleas, Y., Tournikiotis, P., "Archetypes in-Formation: Strategies of Transition in Architecture and Urban Design," in *Cities in Transformation. Ideas, Methods, Techniques, Tools, Case Studies*, Bovati et al (Eds.), Brussels&Milan: EAAE-ARCC/Politecnico di Milano/Il Poligrafo, pp.1411-1417 (2014). ISBN: 9788871158297.

Zavoleas, Y. "Digit Mat(t)ers. Processes of Normalization in Architectural Design," in *Sur-face: Digital Materiality & the New Relation between Depth & Surface*, ENHSA-EAAE, Technical Univ. of Crete, Athens: Futura, pp.221-229 (2013). ISBN: 9782930301464.

Zavoleas, Y., Patsavos, N. "Implications of the digital in the Anatomy of the Surface," in *Sur-face: Digital Materiality & the New Relation Between Depth & Surface*, Brussels / Athens: ENHSA-EAAE / Futura, pp.10-32 (2013). ISBN: 9782930301464.

Zavoleas, Y., Symeonidou, I., Stroumpakos, V., Pappas, V., Zisimopoulos, D. "Code AB-USE in Architecture. Topological Experimentations with Computational Methods" (in Greek), in *Geometry: From Science to Practice*, Technological Educational Institute of Piraeus, pp.415-433 (2012).

Zavoleas, Y. "Computational Experimentation & Design Research. Two Case Studies in Architectural Education," in *Scaleless Seamless*. Spiridonidis, K., Voyadzaki, M. (Eds.), Brussels: EAAE-ENHSA, pp.265-278 (2012). ISBN: 9782930301587.

Zavoleas, Y. "House-as-Machine. The Influences of Technology during Early Modernism," in *Rethinking the Human in Technology-Driven Architecture*, Spiridonidis, K., Voyadzaki, M. (Eds.), Brussels: EAAE-ENHSA, pp.381-393 (2012). ISBN: 9782930301532.

Zavoleas, Y. "Layering as a Systematic Approach to Spatial Order," in *Architectural Theory: A Technical Practice?*, Heynen, H., Rauta, A. (Eds.), Brussels: EAAE-ENHSA, pp.402-410 (2010). ISBN: 9782930301402.

Zavoleas, Y. "Zoom in/out: The Abolishment of the Drawing Scale in Contemporary Architectural Practice," in *Changes of Paradigms in the Basic Understanding of Architectural Research*, Brussels / Copenhagen: EAAE / The Royal Danish Academy of Fine Arts, pp.142-152 (2008). ISBN: 2930301228.

Zavoleas, Y. "Diagram→Program→Schema: The Diagram as a Vehicle of Transposition in the Quest of Architectural Form," in *Paradigms in the Basic Understanding of Architectural Research*, Brussels / Copenhagen: EAAE / The Royal Danish Academy of Fine Arts, pp.154-163 (2008). ISBN: 2930301228.

Zavoleas, Y. "Real Space, Digital Perception. Experience beyond Materiality" (in Greek), in *Architectural Design & Digital Technologies 2*, Salonika: Pendulum, pp.71-76 (2007). ISBN13: 9789607651570.

Zavoleas, Y. "Behind the Glass: Transforming the Ordinary to an 'Object of Desire,'" in *Transparency & Architecture: Challenging the Limits*, Thessaloniki: Aristotelian University, pp.385-392 (2006). ISBN10: 9604560492.

Zavoleas, Y. "Discourse of the Method of the Built Event: A Semantic Understanding of the Architectural Problem" (in Greek), in *Built Event*, Chania: Centre of Mediterranean Architecture, pp.18-23 (2006).

Zavoleas, Y., Farantouri, N. "Towards an Aesthetics of the Ugly" (in Greek), in *Absence of Aesthetics / Aesthetics of Absence*, Philippidis, A. (Ed.), Athens: Futura, pp.50-57 (1998).

Refereed Journal Articles

Zavoleas, Y., Taylor, M., "From Cartesian to Topological Geometry: Challenging Flatness in Architecture," in *Nexus Network Journal* (expected: March 2019).

Zavoleas, Y. "Nested Living Rooms," in *Awards 2013, Domes Architectural Journal* 09/12, pp.102-105 (2012).

Zavoleas, Y. "From the Room to the City: Archetypes of Integrated Spatial Organisation," in *Architects* no.77, Athens, pp.42-45 (2009).

Zavoleas, Y. "Fountain Mediated: Marcel Duchamp's Artwork and Its Adapting Material Content," in *The International Journal for the Arts in Society*, vol.3, no.5, Melbourne: Common Ground Publishing, pp.77-86 (2009). ISSN: 18331866.

- Zavoleas, Y. "The Abolishment of the Drawing Scale in Contemporary Architectural Practice. Zoom in/out" (in Greek), in *Architectural Issues* vol.40, Athens, pp.56-59 (2009).
- Zavoleas, Y. with Fernandez, J., Kallipoliti, L., Tsamis, A., Sinisterra, A. "Fecund City-scapes," in *Thresholds, vol. 31: Ephemera*, Cambridge MA: The MIT Press, pp.40-43 (2006).
- Zavoleas, Y. with Fernandez, J., Kallipoliti, L., Tsamis, A., Sinisterra, A. "Fecund City-scapes" (in Greek), in *Architectural Issues* vol.35, Athens, pp.86-87 (2004).
- Zavoleas, Y. "New Media and Representation in Space," (in Greek), in *MediaLand-Disneyland, Architects* no.40, Athens, pp.52-55 (2003).

Refereed Conference Papers & Other Published Articles

- Zavoleas, Y., "A Quest on the Architectural Column through Nature-Driven Design Approaches," in *4th International Conference on Structures and Architecture*, 24-26 July, Lisbon, (expected: 2019).
- Zavoleas, Y., Haeusler, M.H., "Extended Modeling. Dynamic Approaches Applied to Design Reef Habitats at Sydney Harbour," in *Shock: Sharing of Computable Knowledge: 35th eCAADe*, Rome: Sapienza University, pp.67-74 (2017). ISBN: 9789491207129.
- Zavoleas, Y., "Re-morphing the Amorphous. Creating New Urban Substance," in *Kine[sys]tem: From Nature to Architectural Matter*, Lisbon: University Institute of Lisbon ISCTE, pp.265-274 (2017). ISBN: 9789898862242
- Zavoleas, Y., "Rethinking Architectural Vocabulary. Organic Resolution via Integrated BIM Platforms," in *Revisiting the Role of Architectural Science in Design and Practice: 50th International Conference of the Architectural Science Association (ASA)*, Adelaide: The University of Adelaide, pp.1-10 (2016). ISBN: 9780992383534.
- Zavoleas, Y., "The Biological Model and the Bio-Type: Dynamic Simulation Tools Defining Architectural Components," in *Living Systems and Micro-Utopias: Towards Continuous Designing: The 21st International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA)*, Melbourne: University of Melbourne / Royal Melbourne Institute of Technology RMIT, pp.197-206 (2016). ISBN: 9789881902672.
- Zavoleas, Y., "The Model and Its Operative Significance in Architecture," in *Living & Learning: Research for a Better Built Environment: 49th ASA*, Melbourne: University of Melbourne, pp.1065-1074 (2015). ISBN: 9780992383527.
- Zavoleas, Y., "The Nature of Architecture," in *2nd International Conference of Biodigital Architecture and Genetics*, Estévez, A. (ed.), Barcelona: ESARQ/UIC & Bubok, pp.119-129 (2014). ISBN: 9788468653068.
- Zavoleas, Y., "Computational Thinking with Analogue and Digital Means," in *Rethinking Comprehensive Design: Speculative Counterculture: 19th CAADRIA*, Kyoto: Kyoto Institute of Technology, pp.843-852 (2014). ISBN: 9789881902658.
- Zavoleas, Y. "Nested Living Rooms," in *Annual Architectural Review, DOMES 04/13*, Athens, pp.16-17 (2013).
- Zavoleas, Y. "Nested Living Rooms," in *7th National Hellenic Architectural Exhibition*, Chamber of Achaean, Architects, Patras, pp.39-40 (2013).
- Zavoleas, Y. "In the Fringe of 'Athens Charter.' Interpretive Escaping from an Expected Dead-end," (in Greek), in *2nd Hellenic Conference of Urbanism & Urban Planning*, vol.II, Volos: University of Thessaly, pp.757-764 (2009).
- Zavoleas, Y. "Real Space, Digital Perception: Formation of Spatial Experience beyond Materiality," in "Architecture & Phenomenology A+P" conference, Haifa: IIT (2007).
- Zavoleas, Y. "Integrating New Media into Spatial Perception: A Layered Structure of Representation," in *Intelligent Environments '06*, vol.2, Athens: NTUA, pp.345-350 (2006). ISBN: 086341 6632.

PARTICIPATION IN EXHIBITIONS FOR CREATIVE DESIGN WORKS

- THE NEWcastle School 1965-2015: Past, Present & Future Exhibition.** Projects: "Bio-Structuralism," "Nested Living Rooms," "Rethink Athens: Top-Down" (with Ctrl_Space Lab), "Urban Flows" (with Ctrl_Space Lab & Ahylo Studio). The University of Newcastle, School of Architecture & Built Environment, Australia (2015).
- DOMES Architectural Review.** Project: "Nested Living Rooms," submitted for *A101 Block City Competition* in Moscow. Project ranked 4th, *Best Project of 2010-2012*. Technopolis Gazi, Athens, Greece (2013).
- 7th National Hellenic Architectural Exhibition.** Project: "Nested Living Rooms." Chamber of Achaean, Architects, Patras, Greece.
- Re-think Athens Architectural Competition. Visions & Objectives for the City of Athens of 2016.** Project: "Top-Down." Short-Listed. Onassis Cultural Centre & Parliament Square, Athens, Greece (2012-3).
- A101 Block City Competition.** Project: "Nested Living Rooms." Moscow, Russia (2010).

Un-built. "Line/Transformations/Distortions/Organisms/New Order." Athens Byzantine/Christian Museum, Athens, Greece (2008).

102 X Metaxourgion. "Flexible Structure," short-listed, architectural competition *Housing Complex in Athens*. Organisers: Domes/GEK/Modern Hellenic Architecture Archives/Benaki Museum, Athens, Greece (2006).

4th Biennale Greek Architects. "Fecund City-Scapes," honourable mention, architectural competition "Ephemeral Structures for the City of Athens for Olympic Games 2004." Hellenic Institute of Architecture, Athens, Greece (2004).

Exhibition ARCO: Greek Suspense. *Architects' Land*. Presented: project "Fecund City-Scapes," short films "Cannes Reloaded," "Senses." Organiser: Ministry of Culture, Cultural Olympiad. Madrid, Spain (2004).

PLASmA. Presented short film "Cannes Reloaded." Main hall, Dept. of Architecture, MIT (2003).

Athens-Scape: The 2004 Olympics and the Metabolism of the City. "Fecund CityScapes." Awarded works, competition "2004 Olympics, Ephemeral Structures in the City of Athens." General Secretary/Ministry of Culture. Royal Institute of British Architects (RIBA), London, Athens Byzantine & Christian Museum (2003), Nicosia, Cyprus (2003), Lamia, Greece (2004), Heraklion, Greece (2004).

Urban Transitions. Exhibited in Main hall, included in yearly catalogue. UCLA, School of Architecture, Los Angeles, USA (1999).

Centre of Mediterranean Architecture. Group research, also designed the exhibition. Y.Kizis firm, Chania & Athens, Greece (1998).

Freak Show – Variations of the Public Space in the 1990s. *The new building of Technical Chamber of Greece*, Athens, Greece (1997).

LECTURES & INVITATIONS (CONFERENCES, SYMPOSIA, CRITIQUES)

Gave lecture "From Cartesian to Topological Geometry: Challenging Flatness in Architecture." *6th International Conference on Geometry & Graphics*, Novi Sad, Serbia (2018).

Gave lecture "Re-morphing the Amorphous. Creating New Urban Substance." *Kine[sys]tem: From Nature to Architectural Matter*, University Institute of Lisbon ISCTE, Portugal (2017).

Gave lecture "Skin-deep 3D Printing and the End of Flatness." *2017 Interstices symposium: Surface – Pattern: a pursuit of material narratives*, University of Auckland, New Zealand (2017).

Invited critic *Advanced Design Workshop: Precise Inaccuracies*, final review, ArchitectScripta, Athens (2016).

Gave lecture "Rethinking Architectural Vocabulary. Organic Resolution via Integrated BIM Platforms." *Revisiting the Role of Architectural Science in Design and Practice: 50th International Conference of the Architectural Science Association*, The University of Adelaide, Australia (2016).

Invited to present at *Sydney Computational Design Group*. Lecture: "Dynamic Systems in Architecture: Agent-Based Design," Sydney, Australia (2016).

Invited to present at Dortmund University of Applied Sciences and Arts. Lecture: "Design Philosophy" (2016).

Gave lecture "The Biological Model and the Bio-Type: Dynamic Simulation Tools Defining Architectural Components." *Living Systems & Micro-Utopias: Towards Continuous Designing: 21st International Conference on Computer-Aided Architectural Design Research in Asia*, The University of Melbourne, Australia (2016).

Gave lecture "The Model and Its Operative Significance in Architecture." *Living & Learning: Research for a Better Built Environment: 49th ASA*, University of Melbourne, Australia (2015).

Invited to present in *DOM-INO/OOH-NO*. Lecture: "Revamping Structuralism." Public Lectures, Architectural Association Visiting School, University of Technology at Sydney (UTS), Australia (2015).

Invited to present in *Disclosures*. Lecture: "Responsive Systems." Space UNDER, Athens, Greece (2015).

Gave lecture "The Nature of Architecture. The Biodigital Analogue Informing Performance." Conference *Biodigital Architecture and Genetics II*. ESARQ/UIC, Barcelona, Spain (2014).

Gave lecture "Computational Thinking with Analogue and Digital Means." *Rethinking Comprehensive Design: Speculative Counterculture: 19th CAADRIA*, Kyoto Institute of Technology, Japan (2014).

Invited to participate in the *PhD Network Meeting* as representative of The University of Newcastle, Australia School of Architecture. Presented: "Design Methodology." The University of Applied Sciences and Arts, Dortmund, Germany (2014).

Invited to present in *Global + Regional. Linking Global and Regional Aspects in Architectural Practice and Academic Discussion*. Lecture: "Recent Works and Projects." Hochschule Koblenz, Germany (2013).

Invited to present at the seminar *Architecture in the Making. Form and Technology/Visualization and Modeling*. Presentation theme: "Architectural Conceptualization, Theory and Methods through Advanced Digital Modeling and Visualization." Chalmers University, Gothenburg, Sweden (2013).

Invited to present at the seminar *Architectural Design Theory and Process*. Presentation theme: "Research Focus in Architectural Theory and Practice." The University of Newcastle, Australia (2012).

Gave lecture "Computational Experimentation and Design Research: Two Case Studies in Architectural Education." Conference *ScalelessSeamless. Performing a Less Fragmented Architecture and Education*. EAAE/ENHSA, Munster, Germany (2012).

Invited critic *Advanced Design Workshops Summer 2012*, final review, XAtelier Architecture, Athens (2012).

Gave lecture "Archetypes in-Formation. Strategies of Transition in Architecture and Urban Design." Conference *Cities in Transformation*. EAAE-ARCC/Politecnico di Milano, Milan, Italy (2012).

Invited to present "Code AB-USE in Architecture. Topological Experimentations with Computational Methods." Conference *Geometry: From Science to Implementation*, Technological Education Institute of Piraeus, Greece (2012).

Gave lecture "House-as-Machine. The Influences of Technology during Early Modernism." Conference *Rethinking the Human in Technology-Driven Architecture*. EAAE/ENHSA, Chania, Greece (2011).

Gave lecture "Digit Mat(t)ers. Processes of Normalization in Architectural Design." Conference *Sur-face: Digital Materiality and the New Relation Between Depth and Surface as a Challenge for Architectural Education*. EAAE/ENHSA, Technical Univ. of Crete/CMA, Chania, Greece (2010).

Gave lecture "Layering as a Systematic Approach to Spatial Order." Conference *Architectural Theory: A Technical Practice?* 4th ENHSA-EAAE Sub-network Workshop on Architectural Theory, Ecole d' Ingénieurs et d' Architectes de Fribourg, Switzerland (2009).

Gave lecture "In the Fringe of Athens Charter. Interpretive Escaping from an Expected Dead-end." Conference *2nd International Architectonics Network: Architecture & Virtuality*. Univ. Politècnica de Catalunya, Barcelona, Spain. Also *2nd Hellenic Conference of Urbanism & Urban Planning*. Dept. of Urbanism & Urban Planning, Univ. of Thessaly, Volos, Greece (2009).

Invited to present at *1933-2008, 75 Years from Athens Charter, Past & Present*. CMA, Chania, Greece (2008).

Organised panel *Un-built* event series. *The Diagram as a Conceptual Means of the Un-built in the Design Process*. Athens Byzantine & Christian Museum, Athens, Greece (2008).

Gave lecture "Fountain Mediated. Marcel Duchamp's Artwork and Its Adapting Material Content." *3rd International Conference on the Arts in Society*. Birmingham Institute of Art & Design, (2008).

Gave lecture "The Abolishment of the Drawing Scale in Architectural Practice: Zoom in/out." Conference *Architectural Inquiries*. University of Chalmers, Göteborg. Also: *How should the Schools of Architecture be doing the Research and Theory - building to help in charting the Profession's future?* 3rd EAAE-ENHSA Workshop on Architectural Theory, Univ. of Lusofona, Lisbon, Portugal (2008).

Gave lecture "Zoom in/out." Conference *Scale in Spatial Organising*. CMA, Chania, Greece (2007).

Gave lecture "Fountain Mediated: Marcel Duchamp's Artwork & Its Adapting Content." *Media-in-Transition 5: Creativity, Ownership & Collaboration in the Digital Age*. MIT, Cambridge MA, USA (2007).

Invited to present "Discourse of the Method of a Built Event: A Semantic Understanding of the Architectural Problem." *Built Event III: The Watercourse and the Tank*. CMA, Chania, Greece (2006).

Gave lecture "Integrating New Media into Spatial Perception: A Layered Structure of Representation." Conference "Intelligent Environments 06." NTUA, Athens, Greece (2006).

Gave lecture "Behind the Glass: Transforming the Ordinary to an 'Object of Desire.'" Conference *Transparency & Architecture*. Aristotelian Univ. of Thessaloniki, School of Architecture, Greece (2006).

Gave lecture "Real Space, Digital Perception." Conference "Conceptual, Virtual and Physical Spaces in Digital Design." Aristotelian Univ. of Thessaloniki, School of Architecture, Greece (2005).

Invited to present "Representing, Replicating, Replacing: Dilemmas of Artistic Evaluation in Marcel Duchamp's *Fountain*." NTUA master of architecture program, Greece (2004).

Gave lecture "Spatial Imaginary with Technology: Network and Machine." MIT, Cambridge MA, USA (2004).

Invited to present *Urban Interfaces. Architectural design strategies with the use of digital technologies*. Projects "Cannes Reloaded," "Fecund City-Scapes." Digital Arts & Architecture, Wellesley, MA, USA (2004).

Gave lecture "Creating the Images of the Cyborg." Conference *Global Fusion*. Univ. of Austin, TX, USA (2003).

Gave lecture & participated in round-table discussion "Cannes: Technopole: integration of technology & art with digital media in the city." Municipal board of Cannes & MIT research team. Cannes, France (2003).

Gave lecture "New Technologies & Identity: Modes of Representation in Cyberspace." Conference *Visual Knowledges*. Participated in discussion "Architecture in the Digital Era." Univ. of Edinburgh, Scotland (2003).

Gave lecture "New Media, Identity & Space." Round-table discussion *New Technologies & Communication*. Organised by Athens Institute for Education & Research (ATINER) / Univ. of Athens, Greece (2003).

Invited to present "Fecund City-Scapes," awarded project, *Ephemeral Structures in Athens for the Olympic Games of 2004*. MIT Dep.of Architecture, Cambridge MA, USA & NTUA Athens, Greece (2003).

Gave lecture "Architectural Fetish & Mortal Destiny." Conference *Thinking Gender*. UCLA/USC, Los Angeles, CA, USA (2000).

Gave lecture "Towards an Aesthetics of the Ugly." Round-table discussion *Beyond Beauty* event series. NTUA. Repeated at Aristotelian Univ. of Thessaloniki, School of Architecture, Greece (1996-1997).

Gave lecture "The Uncanny in Contemporary Architectural Expression." NTUA Athens, Greece (1994).

TEACHING EXPERIENCE & RELATED ROLES

Fifteen years of academic experience as full-time Faculty member in five tertiary institutions. Has taught 60 different courses over 29 semesters. Has managed curricula, has been member of teaching committees at School and Faculty level, has prepared new courses and has participated in activities for the advancement of teaching methods and content. Specifically:

At University of New South Wales Australia (since 08/2018)

As Senior Lecturer in Computational Design, he has taught the following courses:

1. Design Thesis studio and research projects. Undergraduate level, Semester 2, 2018.

At University of Cyprus (09/2018-12/2018)

As Guest Professor in Architecture, he has taught the following courses:

1. Architecture/Urban Design Studio (sole coordinator and tutor). Master's level, Semester 1, 2018.
2. Architecture Construction I. Undergraduate level, Semester 1, 2018.

At The University of Newcastle Australia (07/2013-08/2018)

As Senior Lecturer in Architecture at The University of Newcastle School of Architecture & Built Environment, he has taught the following courses:

1. Architectural / Urban Design Studio Research Theme (led separate stream). Master's level, Semester 2, 2017.
2. Architecture Studio (Coordinator). Undergraduate level, Semester 4, 2017.
3. Architectural / Urban Design Studio (Coordinator). Master's level, Semester 2, 2016.
4. Communication in Built Environment 2 (Coordinator). Undergraduate level, Semester 2, 2016.
5. Architectural / Urban Design Studio (Coordinator). Master's level, Semester 2, 2015.
6. Communication in Built Environment 2 (Coordinator). Undergraduate level, Semester 2, 2015.
7. Research in the Built Environment (Lecturer and Tutor). Master's level, Semester 2, 2015.
8. Architecture Studio (Lecturer and Tutor). Undergraduate level, Semester 1, 2016.
9. Architectural / Urban Design Studio (Coordinator). Master's level, Semester 2, 2014.
10. Research in the Built Environment (Lecturer and Tutor). Master's level, Semester 2, 2014.
11. Research in the Built Environment (Lecturer and Tutor). Master's level, Semester 1, 2015.
12. Architectural / Urban Design Studio (Coordinator). Master's level, Semester 2, 2013.
13. Research in the Built Environment (Lecturer and Tutor). Master's level, Semester 2, 2013.
14. Architectural / Urban Design Studio (Lecturer and Tutor). Master's level, Semester 1, 2014.
15. Architectural Design (Lecturer and Tutor). Undergraduate level, Semester 5, 2014.
16. Research in the Built Environment A (Lecturer and Tutor). Master's level, Semester 1, 2014.

Other responsibilities related to teaching:

- Appointed member of the Faculty of Teaching & Learning Committee. Supported the School's updating of the curriculum at the Faculty of Engineering and was involved in decisions about the curricula of other Departments (since late 2015).

- Has been appointed member of the School's Teaching & Learning Committee to amend the program with new methods, digital techniques and interdisciplinary themes embedded into the undergraduate and the postgraduate courses (since 2014).
- Has led the digital reformation and the organising of key courses of the curriculum. Specifically:
 - Worked closely with Head of School to restructure the masters' design studio into research-led streams, allowing individual tutors and staff to test design research themes often of interdisciplinary scope. The streams are linked by a common platform described by a hypothesis, an argument translated to schemes then adapted to context for refinement and final prototyping (2014).
 - Updated the Digital Communication course in the 1st year. The course was running previously as demonstration of digital software. Critical approaches to computation were introduced to support creativity and to become aware of the changes in the profession. The purpose of this introduction has been to acquaint the students with computational thinking and to prepare them for the great challenges they will face as they progress with their career (2015).
 - Amended the 2nd year design studio. The theme was proposed as a research topic of interdisciplinary interest. The notion of *surface* was chosen and was approached through references of natural origin. First, surface was analysed to its performative and dynamic traits related to structure and space through parametric and form-finding techniques (digital and analogue), then adapted to architectural context and prototyped at full scale (2017).

At University of Patras Greece (09/2008-06/2013)

Between 2008 and 2013, he was Assistant Professor in Architecture and New Media at University of Patras. The curriculum has been organised in one 5-year academic cycle as well. He taught the following courses:

1. Architectural Design Studio (Lecturer and Tutor). Semester 4, 2012-2013.
2. Architectural Design Studio (Lecturer and Tutor). Semester 4, 2008-2019.
3. Architectural Design Studio (Lecturer and Tutor). Semester 3, 2012-2013.
4. Architectural Design Studio (Coordinator). Semester 2, 2010-2011.
5. Architectural Design Studio (Coordinator). Semester 2, 2009-2010.
6. Architectural Design Studio (Coordinator). Semester 1, 2010-2011.
7. Architectural Design Studio (Coordinator). Semester 1, 2009-2010.
8. Special Topics in Architecture & Urban Design (Coordinator). Semester 9, 2012-2013.
9. Digital Design (Coordinator). Semester 4, 2011-2012.
10. Digital Design (Coordinator). Semester 4, 2009-2010.
11. Digital Design (Coordinator). Semester 4, 2008-2009.
12. Digital Design (Coordinator). Semester 3, 2011-2012.
13. Digital Design (Coordinator). Semester 3, 2009-2010.
14. Digital Design (Coordinator). Semester 3, 2008-2009.
15. New Media in Architecture (Coordinator). Semester 1, 2009-2010.
16. New Media in Architecture (Coordinator). Semester 1, 2008-2009.
17. Special Topics in Architectural Design (Coordinator). Semester 8, 2012-2013.
18. Special Topics in Architectural Design (Lecturer and Tutor). Semester 8, 2010-2011.
19. Special Topics in Architecture, Systemic Thinking (Coordinator). Semester 7, 2012-2013.
20. Special Topics in Architecture, Systemic Thinking (Coordinator). Semester 7, 2010-2011.
21. Elective, Advanced Computing in Architecture (Coordinator). Semester 6, 2011-2012.
22. Elective, Advanced Computing in Architecture (Coordinator). Semester 6, 2010-2011.
23. Elective, Advanced Computing in Architecture (Coordinator). Semester 5, 2011-2012.
24. Elective, Advanced Computing in Architecture (Coordinator). Semester 5, 2008-2009.

Other responsibilities related to teaching:

- Worked with other staff for the development of new curricula for 1st and 2nd year core studio courses.
- Led the Design & Computation division and collaborated in updating the digital courses and infrastructure (software, hardware and the computer lab).
- Participated regularly in the Faculty meetings on the updating of the curriculum.
- Member of the panel for selecting new academic & technical staff with design & computational skills.

At Technical University of Crete Greece (09/2004-08/2008)

Between 2004 and 2008, he was Assistant Professor in Architecture and New Media at Technical University of Crete, Greece. The School of Architecture was organised in one 5-year academic cycle, equivalent to Bachelor and Masters combined. He taught the following courses:

1. Architectural Design Studio (Coordinator). Semester 8, 2007-2008.
2. Architectural Design Studio (Coordinator). Semester 7, 2007-2008.
3. Architectural Design Studio (Coordinator). Semester 2, 2005-2006.
4. Architectural Design Studio (Coordinator). Semester 1, 2007-2008.
5. Architectural Design Studio (Coordinator). Semester 1, 2005-2006.
6. Digital Technologies in Architectural Design (Coordinator). Semester 4, 2006-2007.
7. Digital Technologies in Architectural Design (Coordinator). Semester 4, 2005-2006.
8. Digital Technologies in Architectural Design (Coordinator). Semester 3, 2007-2008.
9. Digital Technologies in Architectural Design (Coordinator). Semester 3, 2006-2007.
10. Digital Technologies in Architectural Design (Coordinator). Semester 3, 2005-2006.
11. Digital Technologies in Architectural Design (Coordinator). Semester 2, 2006-2007.
12. Digital Technologies in Architectural Design (Coordinator). Semester 2, 2005-2006.
13. Digital Technologies in Architectural Design (Coordinator). Semester 2, 2004-2005.
14. Digital Technologies in Architectural Design (Coordinator). Semester 1, 2007-2008.
15. Digital Technologies in Architectural Design (Coordinator). Semester 1, 2006-2007.
16. Digital Technologies in Architectural Design (Coordinator). Semester 1, 2005-2006.
17. Digital Technologies in Architectural Design (Coordinator). Semester 1, 2004-2005.

Other responsibilities related to teaching:

- Promoted the integration of the most up-to-date digital means and techniques directed to form-finding, recursive experimentation and iterative testing into the core design courses.
- Redesigned the digital courses by introducing computing as an active participant in the creative process reflected in the concept of “tools for thought.”
- Responsible in the redesigning of the studio space, the computer lab, the workshop and the technical equipment under an inclusive teaching, collaborating and studying approach.

RESEARCH SUPERVISION

He has supervised three PhD students (one at University of Patras, completed in 2018, two The University of Newcastle), three advanced research projects (University of New South Wales, The University of Newcastle), thirty-two students in their theoretical study of 10,000-word exit document (The University of Newcastle and University of Patras) and thirteen students in their final design project for advanced (5-year) professional degree being equivalent to Bachelor and Master combined (University of Patras). A selection of the projects is listed below:

- At University of New South Wales Australia

Postgraduate research

1. *Generative specification and modelling of planting design for landscaped communal spaces with multi-level L-systems*. MPhil. Student name: Michael White. Joint Supervision, 50% involvement (since 2018).
2. *Augmented Urbanism: Diagramming the Conceptual Prototype of the Analogue/Digital Interface in Urban Thinking*. PhD. Student name: Mythri Vittal Boggaram. Joint Supervision, 50% involvement (2015-2018 part-time The University of Newcastle, 2019 full-time University of New South Wales).

- At The University of Newcastle Australia

PhD and advanced research

1. *Multi-Agent Systems Methodology* (previously: *Holistic Building Information Modeling – HoBIM*). PhD. Student name: Soultana Papatotiriou. Principal Supervisor, 60% involvement (full time, 2017-2018).
2. *Generative Processes with Advanced Simulation Tools: Variation and Progression in the Study of Architectural Prototypes*. Student name: Nicholas Flatman. Short-term research study (2014-2015).
3. *Bio-structuralism in Architecture: Adaptive Structures Based on Metabolic Functions*. Student name: Steven Sherd. Short-term research study (2014-2015).

Postgraduate research

1. *Formidable Futures, Film Narrative Exploration, Improved Architecture*. Master's thesis. Student: Jack Gilmer (2015).
2. *Architectural Transmutation: An Insight into Emergence in Architecture*. Master's thesis. Student: Andrew Hannah-Davies (2015).
3. *Reimagining Streets as Places: The Role of Streets as Public Space in Creating Sense of Community*. Master's thesis. Student: Alpha Yi Tong Kwan (2015).
4. *Collective Space: Ornamental Subjectivity in Augmented Space*. Master's thesis. Student: Justin Lee (2014).
5. *An Examination and Perception of the Current Plans to Revitalise Newcastle's Central Business Area*. Master's thesis. Student: Cameron James Eggins (2014).
6. *Reinterpreting Tradition as a Model for Design: Developed through the Comparative Analysis of Finnish, Indian and English Vernacular and Contemporary Architecture*. Master's thesis. Student: Angus Vinden (2014).
7. *The Evolution of Data Driven Architecture through Digital Tools: An Examination of the Works of MVRDV*. Master's thesis. Student: Jonathan Langille (2014).
8. *Hidden, Random and Unexpected Function of Ornamentation in Architecture through Biodigital Framework*. Master's thesis. Student: Azreen Azira Azli (2014).
9. *Integration of Chinese Garden and Architecture: Transitional Spaces*. Master's thesis. Student: Bin He (2014).
10. *An Examination of Biomimicry and Critical Regionalism and Its Applicability to Inform Contemporary Architectural Design*. Master's thesis. Student: Troy Newman (2013).

- University of Patras Greece

PhD and advanced research

1. *Digital and Computational Strategies: Interpretive Introduction of Digital Means and Computational Approaches in Architectural Education*. PhD. Student name: Antonis Papamanolis. Co-Supervisor, 20% involvement (part time, 2011-2018).

Postgraduate research

1. *From Existenz Minimum to Digital Space: In Search of New Tools in Defining the Relationship between Space and the User*. Independent thesis. Student: Constantinos Tzioras (2013).
2. *Digital Environments and Their Influence in the Perception of Space*. Independent thesis. Student: Marampea Maria (2013).
3. *In Search of Utopia in Distomo Settlement Designed by Atelier 66*. Independent thesis. Students: Constantinos Nikolakopoulos, Panayotis Mpomis (2013).
4. *Nomadic Living & Temporal Habitation*. Independent thesis. Students: Eleni Koika, Eleni Trigka (2012).
5. *City-Building, Building-City*. Independent thesis. Student: Mary Ioannidi (2012).
6. *Objectile: The New Status of the Object*. Independent thesis. Student: Ioanna Alexaki (2012).
7. *Data Inputs as Design Methodology in MVRDV*. Independent thesis. Student: Nikos Polizos (2011).
8. *Influences of Music Composition in the Conception of Architectural Space*. Independent thesis. Student: Yannis Arvanitidis (2011).

OTHER RESEARCH ACTIVITIES

Research Activity Organiser

Head organiser project *Bio-Shelters: Designing Reef Habitats at the Sydney Harbour*, University of New South Wales Computational Design & Biomedical Engineering / University of Macquarie / Reef Design Lab/World Harbour Project. Funded by LandCom & NSW Urban Growth. Sydney, Australia (since 2018).

Head organiser project *RAW by Design*, The University of Newcastle School of Architecture in collaboration with Tom Farrell Institute dedicated to environmental research for a sustainable future. Co-organiser: Stevens, P. Newcastle, Australia (since 2016).

Head organiser workshop *Re-morphing the Amorphous. Creating New Urban Substance*. Research project Advanced Topics in Computational Design: Dynamic Simulation Techniques Assisting Creativity in Architectural Design Research, University of Applied Sciences and Arts, Dortmund, Germany (2016).

Organised workshop *Metabolic City: The Permanence of Temporary Actions*, Ctrl_Space Lab, Athens. Co-organisers: Patsavos, N., Tsesmetzis, V. (2016).

- Head organizer project** *Bio-structuralism* biological structures adapted to architecture. Pro-Vice Chancellor's Award for Excellence in Research Creative Works, Faculty of Engineering & Built Environment, The University of Newcastle (2014).
- Head organiser workshop** *What if*, Ctrl_Space Lab, Athens. Co-organiser: Patsavos,N. (2014).
- Organised workshop** *Interface*, Ctrl_Space Lab, Athens. Co-organisers: Patsavos,N., Tsesmetzis,V. Lectured via teleconference (2014).
- Organised workshop** *Works in Progress*, Ctrl_Space Lab, Athens. Co-organisers: Patsavos,N., Panagi,M. (2014).
- Head organiser workshop** *code AB-USE*. Future Traditions: Rethinking Traditions, 1st eCAADe Regional International Research Meeting, Porto (2013).
- Head organiser workshop** *code AB-USE II* School of Architecture, University of Patras (2013).
- Head organiser workshop** *code AB-USE*. eCAADe Digital Physicality|Physical Digitality, Prague (2012).
- Head organiser workshop** *AB-USE Computation in Architecture*, School of Architecture, University of Patras. Co-organisers: Symeonidou,I., Stroumpakos,V., Pappas,V., Zisimopoulos,D. (2012).
- Head organiser workshop** *Code Species: Radical Experiments with Scripting in Architecture*, School of Architecture, University of Patras. Co-organiser: Stroumpakos,V. (2012).
- Head organiser seminar** *Architecture & Technology: Conditions & Limits of the Metaphor*, "Machine" & "Machine/Network Compound," History & Critical Thinking, Architectural Association, London (2012).
- Advisory Board, panel coordinator, workshop head** *Sur-face: Digital Materiality & the New Relation Between Depth & Surface as a Challenge for Architectural Education*, 5th EAAE-ENHSA Workshop on Architectural Theory, School of Architecture/Center of Mediterranean Architecture CMA, Crete (2010).
- Organised workshop** *Un-built* event series, "Line – Geometric Transformations – Distortions – Organism – New Order," Athens Byzantine & Christian Museum (2008).
- Head Organiser workshop** *Spatial ID-entity*, Technical University of Crete, European student exchange program BEST (2007).
- Co-organised workshop** *Built Event III*, CMA, Chania. Organisers: Oraiopoulos,Ph. & Antonas,A. Lectured "Discourse of the Method: A Semantic Approach of the Architectural Problem" (2006).

Research Activity Participant

- Research group** *Delos Network*. Main Investigators: Dr Simon Richards, Loughborough University and Dr Mantha Zarmakoupi, University of Birmingham. Research funded by AHRC Network Grant). International research group on ecological urbanism with reference to the work of Constantine Doxiadis and Jaqueline Tyrwhitt on global ecosystems between the 1950s and 1970s. The project involves three symposia in UK and research outputs in setting architecture's role as an instrument of sociopolitical life (2017-2019).
- Ph.D. research meeting** *Regarding the Unseen: on Assessments of Architectural Inheritance*, lectured "House-as-Machine: The Influences of Cultural Heritage of Early Modernism," The Royal Danish Academy of Fine Arts, Copenhagen (2010).
- PhD seminar** *Theory of Design with Algorithms*, Design & Computation, Dept. of Architecture, MIT, instructor: Stiny,G. (2004).
- Workshop** *Cannes Reloaded/Technopole*, MIT Media Lab /municipality of Cannes, organisers: Mitchell,W., Frenchman,D., Ratti,C. (2003).
- Workshop** on theory and practice of comics, MIT, instructor: McCloud, S. (2003).
- Workshop** *Digital Sets: Specialized Courses & Seminars for 3D Digital Design*. Maya (Alias Wavefront/Autodesk). Studio Gnomon3D, School of Visual Arts, Hollywood (2002).
- Workshop** *Adapting Linear Storytelling in an Interactive Age*, SONY Pictures Imageworks/CMS-MIT, Cambridge. Project: "Survivors" as an interactive game. 1st prize (2001).
- Workshop** *Transformation of Spaces of Production to Spaces of Production of Knowledge*, Prix,W.D., Schmidbaur,K. Coop Himmelb(l)au, UCLA (1999).
- Research work** *Adaptation of Main Arsenal to Center of Mediterranean Architecture*, Crete (1998).
- Workshop** *Deconstruction: Theory & Practice*, Center of Architecture, Athens (1993-4).
- Lab course** *Photography, Study & Process*. Hellenic-American Union, Athens (1992-3).

Peer Review Committee

- Peer Reviewer** *Learning, Prototyping & Adapting*, 23rd CAADRIA, Tsinghua University, Beijing, China (2018).
- Editorial Team – Correspondent** *The Journal of Public Space*, vol.2, no.1, Queensland University of Technology, Brisbane, Australia (2017).

Peer Reviewer *Protocols, Flows & Glitches*, 22nd CAADRIA, Xi'an Jiaotong / Univ. of Liverpool, China (2017).

Peer Reviewer *50 Years Later: Revisiting the Role of Architectural Science in Design & Practice*, 50th ASA, University of Adelaide, Australia (2016).

Peer Reviewer *Living Systems and Micro-Utopias: Towards Continuous Designing*, 21st CAADRIA, The University of Melbourne/RMIT, Australia (2016).

Peer Reviewer *Living and Learning: Research for a Better Built Environment*, 49th ASA, The University of Melbourne, Australia (2015).

Peer Reviewer *Next Generation Building*, Baltzer Science Publishers, Amsterdam, Netherlands (2015).

Peer Reviewer Symposium Perception in Architecture: Here & Now, AEDES Berlin, Germany (2014).

Peer Reviewer *Rethinking Comprehensive Design: Speculative Counterculture*, 21st CAADRIA, Kyoto Institute of Technology, Japan (2014).

Peer Reviewer *Expanded Architecture II. Temporal Formal*, Sydney, Australia (2013-2014).

Peer Reviewer *Expanded Architecture*, The Rocks Symposium, Sydney, Australia (2013).

Associate Editor *The International Journal of the Arts in Society*, vol.3, Common Ground Publishing, Melbourne, Australia (2009).

ARCHITECTURAL DESIGN PROJECTS & EXPERIENCE

Urban Flows for Eleftherias Square in Salonika competition, with Ctrl_Space Lab & Ahylo Studio (Athens, 2013).

Top-Down proposal for Re-think Athens competition, with Ctrl_Space Lab (2012, shortlisted).

Nested Living Rooms for a large-scale housing block in Moscow (2010, ranked 4th in 2013 Awards at DOMES International Review of Architecture for Best Project of 2010-2012 in Greece).

Split-level House in Chania, Crete, with A.Vazakas (2006-2007).

Flexible Structures for a group-housing complex in Athens, Ktenas architectural firm, Metaxourgeion Urban Housing Block competition (2005-2006, shortlisted).

Fecund City Scapes Ephemeral Structures for Athens 2004 Olympics competition (with Dr Kallipoliti, Dr Tsamis, Dr Fernandez and Ms Sinisterra, 2003, honourable mention in international architectural competition, exhibited at RIBA Gallery in London "Athens-Scape The 2004 Olympics and the Metabolism of the City").

Skyscraper in Shanghai, Amphibian Arc. Corp Los Angeles, Nonchi Wang architect (2000, built).

Yuko Production Studios, Amphibian Arc. Corp Los Angeles, Nonchi Wang architect (2000, built).

Adaptation of Main Arsenal to Centre of Mediterranean Architecture, Crete, Kizis architectural firm (1998, research study with NTUA, built).

Reconversion of Vatopedi Monastery, Athos, Greece, Kizis architectural firm (1996, built).

Rehabilitation of Agora to Mixed-Use Building, Pyrgos, Greece, Ktenas architectural firm, EUROPAN competition entry (1994, intern).

Housing complex in Koblenz, Germany, Ktenas architectural firm, EUROPAN competition entry (1994, intern). Worked at Gregoriadis architectural firm (1994, as intern).

AWARDS, GRANTS, HONORS, SCHOLARSHIPS

Best Paper Award *From Cartesian to Topological Geometry: Challenging Flatness in Architecture*. Presented at 6th International Conference on Geometry and Graphics Mongeometrija. Serbian Society for Geometry and Graphics SUGIG, Novi Sad, Serbia (2018).

Research Grant *Designing Bio-Shelters: Improving Water Quality and Biodiversity in the Bays Precinct through Designing Novel Bio-Shelters Using Dynamic Data-Driven Approaches*. Funding body: Urban Growth New South Wales (2017, under review).

Research Grant *Advanced Topics in Computational Design: Dynamic Simulation Assisting Creativity in Architectural Design Research*. Funding body: Dortmund University of Applied Sciences & Arts (2016).

Travel Grant for participation in the 49th International Conference of the Architectural Science Association (ASA) at the University of Melbourne. Funding body: The University of Newcastle (2015).

CIBER-SABE Travel Grant for 2nd International Conference in Biodigital Architecture and Genetics in Barcelona. Funding body: The University of Newcastle (2014).

Pro Vice Chancellor's Award for Excellence in Research Creative Works. Project: "Bio-Structuralism," Faculty of Engineering & Built Environment, The University of Newcastle, Australia (2014).

Travel Grant for participation in CAADRIA, Kyoto. Funding body: The University of Newcastle (2014).

New Staff Grant Funding body: The University of Newcastle (2014).

Short-listed. *Re-think Athens Architectural Competition. Visions and objectives for the City of Athens of 2016.*

Project "Top-Down" (2013).

Distinction DOMES 2012 International Review of Architecture. Project: "Nested Living Rooms," Moscow.

Ranked 4th, *Best Project of 2010-2*. Jurors: Abalos, I., Ferlenga, A., Frampton, K. Athens, Greece (2012).

Scholarship Vergotti, G&M. 1st among Greek master's students in academic performance, MIT (2003-4).

Award Office of Graduate Students, for academic performance in 2002-3, MIT (2003-4).

Honorable mention architectural competition *Ephemeral Structures in the City of Athens for Olympic Games 2004*. Cultural Olympiad / UIA. "City-Leisure Generators Activities," *Fecund City-Scapes*, (2003).

Grant Kelly-Douglas. For participation in conferences "Visual Knowledges" in Edinburgh, MIT (2003).

Short-list film competition, *Senses*. History/Theory/Criticism, Dept. of Architecture, MIT (2003-4).

Research Scholarship CMS, MIT (2002-3).

1st prize competition "Interactive storytelling," *Transference of 'Survivors' to online game*, SONY/MIT (2001).

Special mention for lecturing at "Thinking Gender" conference, UCLA (2000).

Distinction for architectural project, *Urban Transitions*, UCLA (1999).

Scholarship Onassis Foundation, enrolment at master of architecture program, UCLA (1998-2000).