



## ELENA RIVAS RUZAFÁ

Date of birth: 6 May 1985  
 Nationality: Spanish  
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Spanish	native
English	level b2
French	level b1
Italian	level b1

Elena Rivas is **architect by the Technical School of Architecture of Madrid**. She has been working in several international architectural and engineering companies where innovation and creativity were the key words to carry the work onwards. After that she received a **research scholarship in a R&D Program** where she developed her skills and specialized herself in programming interactive environments.

A great interest in solving new complexities in design and architectural projects has led her to specialized in emerging technologies such as **Parametric Design, Data Visualization and Digital Fabrication**.

With this in mind and always with an investigative and proactive attitude, she has promoted several entrepreneurial projects with strong abilities to lead a team and developed International Contest which have been awarded. Also she has been working as teacher and researcher in the University of Madrid and Granada.

## ACADEMIC BACKGROUND

- |                   |  |
|-------------------|--|
| 09-2006 / 07-2011 | <b>Architect.</b> Superior Technical School of Architecture, Polytechnic University of Madrid (Spain)  |
| 09-2003 / 09-2006 | <b>Architecture (first stage).</b> Superior Technical School of Architecture, University of Granada  |
| 09-1993 / 07-2003 | <b>Elementary and Middle degree in Music, Speciality Piano and Composition.</b> Superior Conservatory of Music "Victoria Eugenia", Granada (Spain) |

## COMPLEMENTARY TRAINING

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|-------------------|---|
| 01-2012 / 09-2012 | <ul style="list-style-type: none"> <li>● <b>ActúaUPM, bussiness mangement.</b> Polytechnic University of Madrid (Spain)<br/> <i>Selected by Entrepreneurial Ideas Contest of the Polytechnic University of Madrid for Training in Business Management (Business Plan, Accounting, Marketing, Legal).</i></li> </ul> |
| 05-2012           | <b>VVVV. Multimedia Interactive Environments &amp; Video-Mapping.</b> LaenXcijada Lab, Granada  |
| 07-2008           | <b>Materials and Intelligence in Architecture Course.</b> Polytechnic University of Madrid  |
| 07-2008           | <b>New technologies and Energetic saving in Ligthting Course.</b> Polytechnic University of Madrid  |
| 05-2007           | <b>Testing tools of Numeric Control to elaborate Prototypes.</b> Institute for Advanced Architecture of Catalonia (IAAC), Barcelona (Spain). Theoretical and practical Introduction in the use of technique in Digital fabrication CadCam (with tools as 3DPrinter, Laser Cutter y CNC Milling machine)             |

## ACADEMIC EXPERIENCE

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|-------------------|--|
| 03-2012 - 05-2013 | <ul style="list-style-type: none"> <li>● <b>Parametric Design Techniques applied to Structural Forms and Energetic Optimization Courses TDP1, TDP2".</b> International Graduate School of Granada // Instructor &amp; Coordinator</li> </ul> |
| 09-2011 / 04-2012 | <ul style="list-style-type: none"> <li>● <b>Intensive Course of Grasshopper.</b> Master of Advanced Projects in Superior Technical School of Architecture, Polytechnic University of Madrid // Instructor</li> </ul>                         |
| 09-2011 / 06-2012 | <b>TDP Parametric Design Techniques.</b> Teaching Innovation Project. Mathematics, Physics and Graphic Expression. University of Granada // Collaborator   |
| 09-2011 / 06-2012 | <ul style="list-style-type: none"> <li>● <b>Projects of Parametric Architecture.</b> Teaching Innovation Project. Superior Technical School of Architecture, Polytechnic University of Madrid // Teacher Assistant</li> </ul>                |

## RESEARCH EXPERIENCE

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|-------------------|---|
| 01-2010 / 01-2011 | <ul style="list-style-type: none"> <li>● <b>Research "Generative System of Images in perforated metal sheet".</b> Rafael scolá R&amp;D Foundation. Programming languages apply into architecture. // Researcher</li> </ul>  |
| 10-2008 / 02-2010 | <ul style="list-style-type: none"> <li>● <b>Reu08 Multi-disciplined research group.</b> UNIA International University of Andalusia. Art&amp;thinking program. Seville. Data visualization project "Intersections between Economy, Art and Politics" // Data vis Researcher</li> </ul> |

## SKILL/TOOLKITS

Graphic Design	Adobe Illustrator · Adobe Indesign · Adobe Photoshop · CorelDraw
3D Model & Render	Rhinoceros 3D · Autocad 2D&3D · Vray
Parametric Design	Grasshopper 3D
Programming	RhinoScripting · Visual Basic
Interactivity	Arduino · VVVV
Energy	Ecotect Analysis · Geco · Galapagos · CEX-CE3X
Structures	Ansys, CYPE (Metal 3D) · Karamba · Kangaroo
Video/Music Edition	Adobe Premiere · Adobe After Effects · Ableton Live

## SELECTED WORK EXPERIENCE



- 01-2014 / 06-2014 ● **EMPTY S.L. (Madrid)**  
Construction Company of Exhibitions, Museum and Architecture specialized in singular projects  
// Freelance  
Participation in the following projects:  
-Exhibition Design Spaces in Canal Isabel II (Empty in collaboration with Langarita+Navarro), Madrid (Spain)  
-Olympic and Sports Museum, Doha (Qatar)  
-Chateaux Margeaux (Empty in collaboration with Foster+Partners), Bordeaux (France)  
-Kings&Pawns Museum: Board Games from India to Spain, Doha (Qatar)  
-Museum Project "We speak football", (touring show starting in Brazil)
- 01-2012 / 2014 ● **Ooopart C.B. (Granada)**  
Company specialized in Advanced Services of Engineering, Architecture and Design. Innovation in emerging technologies as "Data Visualization, Parametric Design and Digital Fabrication"  
// Co-founder  
Participation in the following selected projects:  
-Biodomo In The Sciences Park, Granada (Spain)  
-Khalifa Avenue Residential Refurbishment Projects. Doha (State of Qatar)  
-Boston Greenway. Boston (EE.UU)  
-Jaguar Interactive Façade. Birmingham (U.K)  
-The Rural Mosque of Antequera. Málaga (Spain)  
-Light Skin Façade. Cambridge (U.K)  
-River of Light. Red Deer (Canada)  
-FLOW(s) Light Art Project. London (U.K)  
-Pepsi sparkling Bubbles Experience. London (U.K)
- 06-2012 / 2014 ● **ABC-asesoría energética, (Granada, Madrid, Barcelona)**  
Realization of Projects of Energy Certification, Energy Audits, Energy Simulations and Projects of Renewable Energy Sources // Consultant
- 10-2012 / 11-2013 ● **WiDIY S.L. (Granada)**  
Creative Auto-advertising by programming in differential support and Marketing Online. Selected company in Yuzz Program (Entrepreneurs of Technologic Talent) as finalist // Creative
- 08-2010 / 01-2011 ● **IMAR S.A. (Bilbao)**  
Company of perforated sheet and expanded metal manufacturing. Development of informatic applications for façade design // R&D Researcher
- 01-2010 / 07-2010 ● **AMIDcero9 Architects, (Madrid)**  
Architecture Office. Complex façade design and development in singular projects.  
// Collaboration Grant of Madrid Architect's Association  
Participation in the following projects:  
-Project of construction of The Cultural Centre called Casa Giner. Madrid (Spain)  
-Project of construction of The Cultural Centre called Cherry Tree's Palace. Valle del Jerte, Cáceres (Spain)  
-Contest of a Project to build a Factory. San Agustín de Guadalix, Madrid (Spain)  
-Contest of Lecture Room Building, BESOS K. Barcelona (Spain)  
-Contest of Interpretation Center of Nature. Guadarrama, Madrid (Spain)  
-Exhibition of the Centenary of a main street in Madrid called Gran Vía, Telefónica Building. Madrid (Spain)
- 01-2007 / 09-2008 ● **Mero Arquitectos, (Madrid)**  
Architecture Office. Design of visuals for Architectural Contests.  
// Freelance  
Participation in the following projects:  
-Contest of a Police Court in the City of the Justice. Madrid (Spain)  
-Contest of a Market in Sanchinarro. Madrid (Spain)  
-Contest to renovate hangars 8 and 9 in MATADEROS. Madrid (Spain)

## AWARDS



- 11-2013 / 11-2014 **Art & Creation Desencaja 2014** Contest // 1st Prize
- 12-2013 **Shop Window Competition.** Entropiqa Shop // 3rd Prize
- 09-2013 **Khalifa Avenue Refurbishment.** Architecture Ideas Competition // 1st Prize
- 09-2013 **"Yuzz".** Competition Entrepreneurs of Technologic Talent // Finalist
- 09-2008 **Toolbox: Open Source Architecture.** Competition // 1st Prize
- 09-2008 **Police Court in the City of the Justice.** Competition // Honourable Mention
- 11-2007 **Experimenta 3 "Casa Festiva".** Architectural Competition // 1st Prize
- 09-2007 **Self-sucient Housing".** IAAC 2nd Advanced Architecture Contest // Finalist

## EXHIBITIONS

- 05-07 2014 ● COLLECTIVE: **Múltiplo de 100.** Archivo Feminismos Post-identitarios. **"Unfolded Skin\_phase0"** Video. CAS, Art Center of Sevilla (Spain) // Design and Video Edition
- 10-2013 **Nuit Blanche "Sound of the wind".** Interactive Art Installation. *Entrópica Exhibition Space, Granada (Spain) // Design and Setting up*
- 07-2010 ● COLLECTIVE: **Centenary of Gran Via.** Exhibition. *Telefónica Building, Gran Vía, Madrid (Spain) // Models and visuals design while at Amidcero9*
- 02-04 2010 ● **Nash Conservatory.** Participative Workshop Art Installation. *Royal Botanical Gardens, Kew, London, UK // Workshop Leader in collaboration with Creatmosphere*
- 12-2009 ● COLLECTIVE: **Transductores. Collective Pedagogies and Spatial Policies.** Exhibition Department of Culture Centre Jose Guerrero, Granada, Spain // Design of works: *AulaGarden Cartography*
- 10-2007 ● COLLECTIVE: **Urban Attributes.** Research and Exhibition about inner-city areas in Costa del Sol. *Andalusian Center of Contemporary Art of Sevilla (Spain) // Collaboration with Mediomundo Architects and Jose Mª Romero*

## CONFERENCES

- 05-2014 **New Architecture Companies.** ETSAG. Granada (Spain)  
// Speaker showing Ooopart works
- 10-2013 ● **Agenciamientos Contraneoliberales Seminar.** UNIA Art&thinking. Seville (Spain)  
// Speaker. *Unfolded Skin project.*
- 11-2008 ● **Workshop VISUALIZAR´08: Database City.** MediaLab Prado, Madrid (Spain)  
// Collaborator with *hackitectura.net. Critical Cartography of the Strait of Gibraltar*
- 10-2007 **Meeting Between Schools07.** Superior Technical School of Architecture of Madrid (Spain)  
// Speaker in the exhibition of projects of the Group of project exploration (GEP)
- 01-2007 I Congress of the **School of Tourism of Málaga.** School of Tourism of Málaga (Spain)  
// Speaker
- 05-2006 **Research Forum about Inner-City Areas International Congress.** Seville (Spain)  
// Speaker

## PUBLICATIONS

- 2014 CO-WRITTEN: Gassó Palop B, Torrecillas Molina C, Rivas Ruzafa E. **TDP Parametric Design Techniques** Teaching Innovation Project Book. University of Granada.
- 05-2013 ● CO-WRITTEN: Gassó Palop B, Torrecillas Molina C, Rivas Ruzafa E. **From Traditional to Parametric Design Processes** Article COAG Blog
- 08-2012 ● CO-WRITTEN: Gassó Palop B, Torrecillas Molina C, Rivas Ruzafa E. **Should we redefine Architecture?** Article. Toyoutome Blog: PRISA DIGITAL
- 02-2010 ● CO-WRITTEN: Vázquez J, Romero F, Benlloch M, Gassó B, Torrecillas C, Rivas E. **Reu08, Who is under the culture?** Book.UNIA Artandthinking Editorial. Seville (Spain)
- 04-2010 ● MENTION:**Transductores. Collective Pedagogies and Spatial Policies.**Department of Culture Center Jose Guerrero, Granada
- 2010 ● MENTION: Book **Laboratory "Gran Via".** Telefónica Foundation, 2010 Madrid
- 12-2009 ● MENTION: Book **2nd Advanced Architecture Contest "Self-sucient Housing"** Institute for Advanced Architecture of Catalonia (IAAC) Actar, 2009
- 2007 MENTION: De Lacour R. **"Meeting beetwen Schools, An opportunity of Future".** Magazine of History and Theory of the Architecture, ISSN 1576-5628, N°8, 2007, pages. 160-165