



## Curriculum Vitae

Name Altino João Serra de Magalhães Rocha  
Current address Calçada do Combro Nº32, 3ºEsq 1200-114 Lisbon Portugal  
Phone ++ 351 91 9943456  
E-mail rjoao@uevora.pt  
Nationality Portuguese  
Date of birth 19.03.1969

**PRESENT POSITION** UNIVERSIDADE DE ÉVORA , Portugal  
DEPARTMENT OF ARCHITECTURE. Assistant Professor  
2005-2007 Department of Architecture. Director

## EDUCATION

1998 2003 MASSACHUSETTS INSTITUTE OF TECHNOLOGY, MIT, Cambridge, USA  
SCHOOL OF ARCHITECTURE AND PLANNING  
Ph.D in Architecture. Thesis Title: "Architecture Theory 1960-1980. Emergence of a Computational Perspective."  
Doctoral Committee: William Mitchell, MIT, George Stiny, MIT. Michael Hays, Harvard.  
(Registo na UTL, Nº 24/04, 23 Julho 2004)

1994 1995 COLUMBIA UNIVERSITY, New York, USA  
THE GRADUATE SCHOOL OF ARCHITECTURE PLANNING AND PRESERVATION  
M.Sc in Advanced Architectural Design.  
(Equivalencia ao Grau de Mestre (FAUTL).3/02/2004)

1992 POLYTECHNIC OF TURIN, Italy  
FACULTY OF ARCHITECTURE  
Final year Design Studio: Urban Design Plan and an Opera House design for Gregotti's Torino Master Plan [with  
30/30]

1992 TECHNICAL UNIVERSITY OF LISBON, Portugal  
FACULTY OF ARCHITECTURE, FAUTL  
Licenciatura in Architecture [with Good]

## RESEARCH ACTIVITIES

2006-07 CHAIA. Researcher at Centro de História da Arte e Investigação Artística. Universidade de Évora  
General Coordinator for Architecture Research

2006-07 Publishing Proposal for International submission  
"War and Science and Architecture. From Crystallography to Architecture Computing"

2006 [Fall] HARVARD UNIVERSITY. GRADUATE SCHOOL OF DESIGN [GSD]. Cambridge, USA  
Research Fellow. Supervisor: Prof. Antoine Picon

2006 FOUNDATION FOR SCIENCE AND TECHNOLOGY, FCT, Lisbon  
PTDC/AUR/64981/2006. R&D Funded Research Competition  
"Biography of a Territory".  
Project Leader. Centro de História da Arte e Investigação Artística (CHAIA). Universidade de Évora.  
International evaluation: "Very Good"

2004 FOUNDATION FOR SCIENCE AND TECHNOLOGY, FCT, Lisbon

POCI/EME/57565/2004. R&D Funded Research Competition  
Submitted research Project: "Design and Digital Manufacturing of Composite Architectural Objects"  
Project Leader. IPC/UM (not funded)

2002 06 FOUNDATION FOR SCIENCE AND TECHNOLOGY, FCT, Lisbon  
POCTI/AUR/42147/2001.R&D Funded Research Competition  
"Integrating Shape Grammars and Genetic Algorithms into a new Generative Design System."  
[with: L. Caldas., J. Duarte]. International Evaluation: "Excellent".

2002 [Spring] CAMBRIDGE UNIVERSITY. THE MARTIN CENTRE. Cambridge, UK  
Research Fellow. Supervisor: Prof. Paul Richens

## RESEARCH SUPERVISION

2007 TESE DE DOUTORAMENTO. Unviversidade de Évora.  
(início) PhD. Supervisor. Tema: "Habitação Própria-Alavanca na Redução da Pobreza"(J.Loureiro)

2005-06 TESE DE DOUTORAMENTO. Universidade do Minho  
PhD. Co-Supervisor. Tema: "Ambiente e Construção, Metodologias de Projecto na Concepção para a Desconstrução de Edifícios." (R. Amoeda).

2006 TESE DE DOUTORAMENTO, Univesitat Politecnica de Catalunya  
Setembro Membro suplente de Juri. Tema: "A Casa de Siza".(Isabel.M.R.silva).

2006-07 GRADUATION RESEARCH WORK, DAUE (6<sup>th</sup> year)  
"Biografia de um Território. Alentejo - Scrapbook". ( F. Valente). 180pp. DAUE

2005 DISSERTAÇÃO DE MESTRADO, IST  
Junho Arguente. Tema: "Projecto de Arquitectura em Colaboração Remota." (P. Coutinho Quaresma).

2005 LAST YEAR RESEARCH PROJECTS. RESEARCH SEMINAR (5<sup>th</sup> year)  
"O Preto". (C. Gouveia; R.Augusta; Y.Canha), 90pp. DAAUM

"Frontpage. Os Rostos da Cultura Portuguesa". (P.N.Soaes), 166pp. DAAUM

2005 "O Véu Islâmico". (V.C.Almeida), 102pp. DAAUM

2005 "Souto de Moura. Experimentação para a Obra Anónima". (J.P.Fernades), 66pp. DAAUM

2004 "Ruptura Transição Descontinuidade(s)". (M.J. Frias), 102pp. DAAUM

2004 "Minimalismo Ornamentado". (V.Silva), 87pp. DAAUM

2004 "Uma Forma para a Musica". (C. Araujo), 112pp. DAAUM

2005 "Identidade e Memória Urbana". (C. Macedo), 60pp. DAAUM

## TEACHING EXPERIENCE

2003 2005 UNIVERSIDADE DO MINHO. Guimarães, Portugal  
DEPARTMENT OF ARCHITECTURE. Assistant Professor  
**Architecture Theory** (5<sup>th</sup> year) | **Research Seminar** (5<sup>th</sup> year)

2006 2007 UNIVERSIDADE DE ÉVORA, Évora, Portugal  
DEPARTMENT OF ARCHITECTURE, Assistant Professor,  
**Architecture Studio V** (with João Luis Carrilho da Graça)-**Prémio Sécil Universidades** was awarded the  
Studio Project: *Hammam*  
**Architecture Studio I** (with João Soares e Pedro Oliveria)

2006 POLITECNICO DI BARI, Bari. Itália  
March FACOLTÀ DI ARCHITETTURA  
**Studio Tesi li Laurea** Guest critic. Progettazione Architettonica per I Paesi del mediterraneo.Prof. Attilio Petruccioli

- February UNIVERSIDAD POLITECNICA DI VALENCIA, Valencia, Spain  
SCHOOL OF ARCHITECTURE.  
**Architecture Studio IV** Guest Studio critic.
- 1998-2002 MASSACHUSETTS INSTITUTE OF TECHNOLOGY, MIT. USA  
Teaching Assistant for the Department of Architecture. Design and Computation Group.  
Courses taught:
- 2002 FA 4.182 **Architecture Studio:** Architectural Design Workshop: Fabricating Ceramics.  
[L.Sass- A. Kilian (TA) for MIT., J. Duarte., L. Caldas for IST]
- 2001 SP 4.645 Selected Topics in Architecture 1750 to the Present. Website development. [A. Dutta ].
- 2000 FA 4.163 **Architecture Charrete Studio:** Long Distance Collaborative Design Studio. Emergency architecture in a context of a natural disaster. [with Charles Correa] in collaboration with (METU), Middle East Technical University, Ankara, Ahmedabad Institute of Technology, Ahmedabad India; American University of Beirut, MIT
- Turkey;  
1999 FA 4.155 **Architecture Studio:** Architectural Design Studio of the Future. [W. Mitchell, P. Testa, A. Kilian (TA)]
- 1999 SP 4.184 **Architecture Studio:** Architectural Design Workshop: Rapid Prototyping. [W. Mitchell, J. Glymph, T. Nagakura]
- 1998 TECHNICAL UNIVERSITY FREDERICO SANTA MARIA. Valparaiso, Chile  
FACULTY OF ARCHITECTURE. Invited Summer Professor  
**Architecture Studio.** [3year Studio level]/[with Pol Taylor/L. Caldas]
- 1996 PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE. PUC, Santiago, Chile  
January-July **Architecture Studio.** Facultad de Arquitectura y Bellas-Artes, Escuela de Arquitectura  
Guest lecturer | Invited Studio Critic [5<sup>th</sup> year-graduate -with R. Parada, Juan Ugarte]

## PUBLICATIONS

**Rocha, J.** [2007]. "British Avant-garde in the 30s: Hampstead, Carbis Bay and the *Circle* scene".  
(in preparation for submission to Grey Room. MIT Press)

**Rocha, J., Duarte, J.** [2007]

"Towards a new Design Tool for Urban Islamic Contexts. Zaouiat Lakhdar ad the Medina of Marrakech"  
Proceedings of Traditional Mediterranean Architecture. Barcelona. 235-238. ISBN 84 87104 79 7

Duarte, J., **Rocha, J.**, Ducla-Soares, G. [2007]. "Unveiling the Structure of the Marrakech Medina: A Shape Grammar and an Interpreter for Generating Urban Form." in, Gero, J., Dong, A. (eds.), Journal: Artificial Intelligence for Engineering Design, Analysis and Manufacturing (AIEDAM). Special Issue, Fall 2007, Vol.21. No.4. 1-33.

Duarte, J., **Rocha, J.**, Ducla-Soares, G., Caldas, L. [July 2006]. "An Urban Grammar for the Medina of Marrakech: A tool for the design of cities in developing countries." in, Gero, J. (ed.), Proceedings of the 2<sup>n</sup> International Conference on Design Computing and Cognition, DCC 06, Eindhoven, The Netherlands: Springer. 483-502. ISBN 1 4020 5130 1

Duarte, J., **Rocha, J.** [2006]. "A Grammar for the Patio Houses of the Medina of Marrakech. Towards a Tool for Housing Design in Islamic Contexts." Proceedings of the International Conference, eCAAd. *Communicating Space(s)*. University of Thessaly, Volos. Greece. September. 860-866. ISBN 0 9541183 5 9

**Rocha, J.** [2006]. "Programa[ção]. Entre sistema de valores e sistema de códigos." In, *Jornal dos Arquitectos*. JA. 222. 26-31. ISSN 0870 1504

**Rocha, J.**, Caldas, L. [2005]. "Interfaces entre arquitectura e engenharia. A invenção do problema e a criação de novos processos tecnológicos." Brito, J.M.B., Heitor, M.V. e Rollo, M. F. [ eds]. In, Momentos de Inovação e Engenharia em Portugal no Século XX. Lisboa: D. Quixote. 600-608. ISBN 972 20 2792 1

Duarte, J., Caldas, L., **Rocha, J.** [2004]. "Free-form Ceramics. Design and Production of Complex Architectural Forms with ceramic Elements." In, *Architecture in the Network Society*. Proceedings of the 22<sup>nd</sup> Conference on education and research in Computer Aided Architectural Design in Europe. Edited by Rudiger, B., Tournay, B & Orbaek, H. Copenhagen. 174-183. ISBN 0-954118324

Caldas, L., Norford, L., **Rocha, J.** [2003]. "An Evolutionary Model for Sustainable Design." Management of Environmental Quality. An International Journal.[14]. N°3, MCB UP Limited. 383-397. ISSN 1477-7835

Caldas, L., **Rocha, J.** [2001]. "A Generative Design System Applied to Siza's School of Architecture at Oporto." Proceedings of CAADRIA'01, Sydney, Australia, April, 19-21. 253-264 [Commended Paper Award]. ISBN 1-86487-0966

Caldas, L., Norford, L., **Rocha, J.**[2001]. "An Evolutionary Model for Sustainable Design," *Proceedings of PLEA'01*, Florianópolis, Brasil, November 7-9 [Best Paper Award]

**Rocha, J.** [2001]. "Rapid Prototyping Technologies." In, Heitor, M., Duarte J.P. [eds.] *The Glass Chair - Competence Building for Innovation*. Lisboa: IST Press. 78-91. ISBN 972-8469-15-2

**Rocha, J.** [2000]. " Investigação e Currículo de Arquitectura no MIT". *GEHA N.2*. Lisbon, 101-104. ISSN 0874 2898

**Rocha, J.** [1998]. "Virtuality. Materiality. Celebration." *EX\_MATER*. Virtual Museum Art Exhibition. [Catalogue]. Ibero American Museum for Contemporary Art. Badajoz. Spain and Centro Cultural de Belem. Lisbon [with Baixa Baixa Architects/ P.Ravara.,N.Vidigal]. 96-101 ISBN 84 7671 402 5

**Rocha, J.** [1995]. Three M.Sc. Studio Projects: I- Bahnia, Deployable Bridge, Marrakech an Evolutionary Model. *Abstract, 94-95*. Columbia University. NY.USA

## CONFERENCES

- 2007 REHABIMED CONFERENCE. Barcelona  
Paper: Towards a new Design tool for Urban Islamic Contexts. Zaouitat Lakhdar and the Medina of Marrakech. [With José Duarte].
- 22 09 05 SOCIETY OF ARCHITECTURAL HISTORIANS 2<sup>ND</sup> INTERNATIONAL SYMPOSIUM, Paris  
CHANGING BOUNDARIES: ARCHITECTURAL HISTORY IN TRANSITION  
Paper: John Desmond Bernal and the British Interwar period: Interrelationship between Art and Science in the eve of the 30s.
- September THE ROYAL DANISH ACADEMY OF FINE ARTS. SCHOOL OF ARCHITECTURE. Copenhagen, Denmark  
Paper: Free-form Ceramics. Design and Production of Complex Architectural Forms with Ceramic Elements [With José Duarte]
- 2001 CONFERENCE CAADRIA'01. Sydney, Australia.  
Paper: A Generative Design System Applied to Siza's School of Architecture at Porto. [With Luisa Caldas]

## GUEST CONFERENCES PRESENTATIONS

- 23.02.2007 CENTRO TECNOLÓGICO PARA O APROVEITAMENTO E VALORIZAÇÃO DAS ROCHAS ORNAMENTAIS E INDUSTRIAIS (CEVALOR).  
Apresentação:"O Cluster das Rochas Ornamentais. Oportunidades e Desafios"

- 24.06.07 PROJECTO NA CIDADE. PROGRAMA CIENCIA VIVA, Évora. Palacio D. Manuel  
Seminário: Arquitectura Contemporânea vs Arquitectura Tradicional.  
Apresentação: "Aplicação de tecnologias de computação ao estudo de arquitectura relacionada com centros históricos –  
2 casos de estudo: Marrakech e Malagueira"  
(com José Pinto Duarte (FA-UTL)
- 23 05 07 YILDIZ TECHNICAL UNIVERSITY, SCHOOL OF ARCHITECTURE. Istanbul  
Paper: History of Computing and Architecture
- 23 02 06 HARVARD UNIVERSITY. GSD. USA  
Paper: Cybernetics and Architecture. The pivotal role of the British Avant-Garde.  
(Antoine Picon's Class: Digital Culture, Space and Society. GSD 4412)
- 2006 POLITECNICO DI BARI, Bari. Itália  
March FACOLTÀ DI ARCHITETTURA  
Paper: The Zaouiat Lakhdar cartier and the development of the Marrakech Medina. New design tools for traditional heritage.
- 11 06 05 UNIVERSIDADE NOVA DE LISBOA (FCT/UNL). Faculty of Science and Technology. Lisbon  
Apresentação: Architecture, Innovation and Industry. A Possible framework
- 20 04 04 MIT. DEPARTMENT OF ARCHITECTURE. DESIGN AND COMPUTATION LECTURE SERIES.  
Paper: Architecture Theory. 1960-1980. A Computational Perspective.
- 2002 INSTITUTO SUPERIOR TÉCNICO, TECHNICAL UNIVERSITY of Lisbon.  
Center for Innovation, Technology and Policy Research, IN+  
Apresentação: A perspective on innovation for manufacturing processes.
- 2001 1000 PLATEAUX. EXPERIMENTA DESIGN 2001, Lisbon  
Apresentação: Generative Systems. An Intellectual and historical Matrix.
- 1997 TECHNICAL UNIVERSITY FEDERICO SANTA MARIA. Valparaiso. School of Architecture. Chile.  
Paper: International Symposium on Architecture and Theory. Challenges for the new Millennium  
The un-limits of Architecture Theory. Between Technology and Change.
- 1996 PONTIFICA UNIVERSIDAD CATOLICA [PUC]. School of Architecture. Santiago. Chile.  
Paper: Architecture Theory and Technology. Paradoxes for the new Millennium.

## SCIENTIFIC COMITTEES

- 2004 -07 FOUNDATION FOR SCIENCE AND TECHNOLOGY, Ministry of Science and Technology. Lisbon.  
Member of the National Evaluation Committee. Advanced Level Research Grants
- 2006 UNIVERSITY OF ÉVORA  
October 5-7 Sharing Architecture Cultures across the Maghreb and India. An International Symposium. [with A. Carapinha, J.Correia]
- 2005 ECAADE 2005, IST. Lisbon.  
September 21.25 Education and Research in Computer Aided Architectural Design in Europe.
- March 14 -15 INSTITUTO SUPERIOR TÉCNICO, Technical University of Lisbon.  
CENTER FOR INNOVATION, TECHNOLOGY AND POLICY RESEARCH, IN+  
Research Workshop. ENGINEERING DESIGN: what can we learn from designing concept cars? [with M.Heitor]

July 19 - 21 MIT. 1<sup>ST</sup> INTERNATIONAL CONFERENCE ON DESIGN COMPUTING AND COGNITION. Cambridge, USA.  
Workshop on Generative Systems

2004 TECHMINHO. UNIVERSIDADE DO MINHO  
Concurso. Inventos e Protótipos

## DESIGN PRACTICE

2007 **Apartment** refurbishment, St.Catarina. Lisbon. Built

2005 **Apartments** refurbishment, Bairro Alto. Lisbon  
Project. [Project Coordinator, with Alberto Vinagre, architect]

Member of the **ASC** Architectural office, Lisbon

2002-2004 **Contimetra** Central Headquartes, Alfragide, Lisboa  
Refurbishment of an office building. [with L.Caldas e Catarina Almada]. Built.

**Apartments** refurbishment, Principe Real, Lisbon  
Project. [Principal architect, with Catarina Almada]

1998-01 **House in Restelo** [built], Lisbon. [with L. Caldas]  
Principal architect. Design of a 3-storey house. Built

**House in Arrabida** [built], Portugal [with Nuno Vidigal]  
Extension of a traditional house. Construction finalized in 2001. Built

1999 **Shelter Unit in the Antarctica Shell, Chilean Basis of Patriot Hills**  
Project Concept [with Pol Taylor and L.Caldas]

1996 **Iglesias & Pratt Arquitectos Asociados**. Santiago. Chile  
Competitor for the Urban redevelopment of Santiago. [1<sup>st</sup> prize]  
Concept and schematic design for Santiago Town Council

1995-97 **Baixa Atelier de Arquitectura**, Lisbon  
Project architect, with Pedro Ravara:  
**EXPO'2000**. Switzerland. Morat plage. [International competition. 2<sup>nd</sup> prize]  
Shortlisted, others included Jean Novel, Enric Miralles)  
**Portuguese Embassy in Berlin** [Competition]  
**Wine Pavilion, Expo'98**. Conceptual and Competition design. [Short-listed]  
**EX-MATER**. Parque Museo Virtual, Montemor.  
**Project for Medical University**, Lisbon [Competition]  
Assistant architect responsible for conceptual and schematic design:  
**Cultural Centre of Macao** [International Competition -Honorific Mention]  
with, Manuel Graça Dias. Egas José Vieira. Architects  
**EXPO'98** [International Competition -1st Prize Winner ].  
Master Plan for the Universal Lisbon Exhibition. [with Manuel Vicente/ Baixa Architects]

1993 **Competition for the Rehabilitation of the Church and Monastery of S. Francisco**, Santarém. [with L.Caldas]

## AWARDS

2002 MASSACHUSETTS INSTITUTE OF TECHNOLOGY, MIT, USA  
Harold Horowitz Student Research Award.

AMERICAN EXPLORES CLUB.

Travel Grant Awarded. World Straits expedition

FUNDAÇÃO CALOUSTE GULBENKIAN/FLAD, Portugal  
PhD Scholarship

- 2001 AMERICAN EXPLORES CLUB. Travel Grant Awarded. *World Straits*  
Best Paper Award, 18<sup>th</sup> PLEA Conference, Florianópolis, Brasil. .
- 1998-02 MINISTRY OF SCIENCE AND TECHNOLOGY, Portugal  
Ph.D.Grant. Program Praxis XXI
- 1995 COLUMBIA UNIVERSITY. New York.  
Lucille Smyser Lowenfish Memorial Prize.  
Dept. of Architecture Design Award for the most significant final semester Design Studio.
- 1992 ERASMUS AWARD. European Community Scholarship

#### **MEMBERSHIPS**

ORDEM DOS ARQUITECTOS, Portugal, Registered Architect  
PORTUGUESE-AMERICAN POST-GRADUATE SOCIETY, MIT  
COLUMBIA UNIVERSITY, Alumni Association, USA  
MIT, Alumni Association, USA  
MUSIC ACADEMY OF LISBON, Portugal

#### **CARGOS DIRECTIVOS**

- 2005-07 DIRECTOR DE CURSO. Departamento de Arquitectura da Univ. de Évora  
2007 ADJUNTO DO PRESIDENTE DO COSELHO de DEPARTAMENTO. Univ. de Évora.  
2006-07 RESPONSÁVEL PELA REFORMA CURRICULAR SOB O PROCESSO DE BOLONHA.  
Dept. Arquitectura. Univ. de Évora  
2006 JURI do CONCURSO: " Projecto de Reabilitação da Antiga Fabrica dos Leões, Complexo de Artes Visuais e  
Arquitectura". Univ. de Évora.

#### **CARGOS PEDAGÓGICOS**

- 2006-07 ERASMUS  
Tutor dos Estudantes Erasmus do Dept. Arquitectura da Univ. Évora.

**LANGUAGES** Proficiency in English and Italian. Fluent in Spanish and French.

#### **OTHER ACTIVITIES**

Piano studies.  
Photography