

Erik Johansson

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Education

- 2006** PhD in Engineering, Dept. of Architecture and the Built Environment, Lund University, Sweden (predicted 15 September 2006).
1993 French, general course (30 credits), Lund University, Sweden
1989 Master of Science in Civil Engineering, Lund University, Sweden.

Scientific and other professional skills

Professional experience

1989– Housing Development & Management (HDM), Lund University

2014 Appointed as Reader in Construction and Architecture 16 Dec. 2014

Research projects and technical cooperation projects:

- 2013– Research project: Climate-sensitive urban design in southern Sweden – a new planning tool. Role: principal researcher
 2013– Research project: Efficient use of land and energy in Dar es Salaam, Tanzania – Urban planning and climate adaptation. Role: principal researcher
 2013– Research project: Boendets energianvändning kopplad till människors livsstilar. Role: principal researcher
 2010–13 Research project: Informal settlement planning – land use, climate and energy: the cases of Guayaquil and Dar es Salaam. Role: researcher
 2008–11 Research project: Climate-conscious design of low-income housing areas in Guayaquil, Ecuador. Role: researcher
 2007 Post doctoral studies at Laboratory of Environment and Energy Studies, Department of Technology, Faculty of Architecture and Urban Design, University of Sao Paulo, Brazil. Role: Researcher
 2005–09 Technical cooperation, Jordan: Defining the means and criteria for improving thermal performance and minimizing energy use in buildings in Jordan. Cooperation project with the Royal Scientific Society of Jordan. Role: Researcher
 2001–06 PhD Project: The influence of urban design on the microclimate and the outdoor thermal comfort. Field studies in Morocco (cooperation with Laboratoire Public d'Essais et d'Etudes – LPEE) and Sri Lanka (cooperation with University of Moratuwa).
 1997–02 Technical cooperation, Morocco: Influence of urban climate on outdoor thermal comfort and energy efficiency of buildings. Collaboration with Laboratoire Public d'Essais et d'Etudes (LPEE).
 1994 Technical cooperation, Ethiopia: Survey of roofing materials, collaboration with Addis Ababa University.

Other tasks:

- 1990–99 Manager of the Building Issues Programme, supervising and publishing the results of problem-oriented studies on building and urban issues in developing countries.

1989–94 Division of Building Materials, Lund University

Researcher. Projects included:

- 1993–94 Literature survey on chemical emissions from building materials.
- 1993–94 Investigation on moisture properties of foamed concrete.
- 1991–93 Technical cooperation, Algeria: Development of thermal insulation materials, collaboration with the National Building Research Centre (CNERIB).
- 1989–90 Technical cooperation, Tunisia: Improving watertightness of flat roofs, collaboration with Ecole Nationale d'Ingénieurs de Tunis (ENIT).

Paternity leave

- 2001–02 50% paternity leave from July 2001 to August 2002.

Participation in seminars and conferences

- 2013 "The influence of urban design on microclimate in different climates", Swedish Excellence Seminar, São Paulo and Porto Alegre, Brazil, 12 and 14 November. 2 oral presentations.
- 2012 "Climate-conscious urban design in different climates", Swedish Excellence Seminar, São Paulo, Brazil, 5 December. 1 oral presentation.
- 2012 Symposium on Public Housing, 18th International Conference on Open Building, Beijing, China, 20–22 November. Invited as a keynote speaker.
1 oral presentation: "Propaganda and Demonstration of Green Technologies in Public Housing Construction in Sweden"
- 2012 8th International Conference on Urban Climate (ICUC-8), Dublin, Ireland, 6–10 August.
2 papers in proceedings, both presented orally: "Initial development of protocols for the study of outdoor thermal comfort" and "Improving outdoor thermal comfort in warm-humid Guayaquil, Ecuador through urban design"
- 2012 Municipal Management and Urban Development for Sustainability in Arab Cities organized by Kuwait Municipality and UN-Habitat, Kuwait City, 7–9 May. Invited as a keynote speaker.
1 oral presentation: "The problem of poor microclimate in urban areas in hot dry climates"
- 2011 Architecture and Sustainable Development, 27th International Passive and Low Energy Architecture (PLEA) Conference, Louvain-la-Neuve, July 13-15.
1 paper in proceedings, presented as poster and oral presentation: "Subjective thermal comfort in urban spaces in the warm-humid city of Guayaquil, Ecuador"
- 2010 LTH:s 6:e Pedagogiska Inspirationskonferens, LTH, Lunds universitet, 15 december.
1 paper presented orally: "Gränsdragningen för universitetslärare i relationen gentemot studenterna – en analys av det egna förhållningssättet till yrkesmässighet och det privata".
- 2010 Sustainable Architecture and Urban Development (SAUD 2010), International conference organized by the Centre for the Study of Architecture in the Arab Region, Amman, Jordan, July 12-14.
1 paper in proceedings and presented orally: "Towards a climate-sensitive urban design: the need to modify current planning regulations".
- 2010 Life-long Learning: Capacity Development at Local and Regional level. Experiences from Latin America brought forward, Seminar, Stockholm, 29 January. Invited panelist.
- 2010 Better Homes – Better Cities. Capacity development for housing provision and housing improvement. International symposium, Lund Sweden, 26 January.
1 oral presentation: "Challenges in Capacity Development and Climate Change"
- 2009 Talk Climate, Exhibition, Form/Design Center, Malmö, 15 November.
1 oral presentation: "Hur bör framtidens klimatsmarta bostadsområden i u-länder utformas?".
Lecture given together with prof. Björn Karlsson.

- 2008 FRAMTIDENS (NORDISKA) STAD. Workshop 3 within the Nordic Countries project "Framtidens stad" (The city of the future), Kompanihuset, Malmö, Sweden 9–10 June. Invited as expert.
1 oral presentation: "Framtidens gröna stad" (The green city of the future)
- 2007 Encontro Nacional e Latino Americano de Conforto no Ambiente Construido (ENCAC), Ouro Preto, Brazil, 8-10 August.
1 poster presented.
- 2006 6th International Conference on Urban Climate (ICUC 6), Göteborg, Sweden, June 12–16.
1 paper in proceedings and presented orally: "The influence of urban design on outdoor thermal comfort in the hot, humid city of Colombo, Sri Lanka".
- 2004 Built environments and environmental buildings, 21st International Passive and Low Energy Architecture (PLEA) Conference, Eindhoven, The Netherlands, 19-22 September.
1 paper in proceedings and presented orally: "Microclimate and thermal comfort in the warm humid city of Colombo".
- 2003 Séminaire maghrébin: L'habitat et l'urbanisme adaptés au climat, Casablanca, Morocco, 26–27 February.
3 oral presentations: "Les caractéristiques du microclimat et le confort thermique dans les zones urbaines", "Développement internationale de la réglementation thermique et indices de confort thermique" and "Etude de faisabilité sur les matériaux isolants au Maroc".
- 2001 Renewable Energy for a Sustainable Development of the Built Environment, 18th International Passive and Low Energy Architecture (PLEA) Conference, Florianopolis, Brazil, 7–9 November.
1 paper in proceedings and presented orally: "Street canyon microclimate in traditional and modern neighbourhoods in a hot dry climate - a case study in Fez, Morocco".
- 2000 Architecture City Environment, 17th International Passive and Low Energy Architecture (PLEA) Conference, Cambridge, UK, 3–5 July.
1 paper in proceedings: "Urban micro-climate in the city of Fez, Morocco".
- 1995 Deuxième séminaire international de la recherché sur les matériaux locaux, Marrakech, Morocco, 26–27 September.
1 paper in proceedings and presented orally: "Développement de matériaux thermiquement isolants – l'expérience algéro-suédoise".

Investigations and evaluations

- 2013 Analysis of the wind conditions for the planned extension of the Linné University, Kalmar. An assignment for Malmström Edström Arkitekter Ingenjörer.
- 2011 Analysis of the comprehensive plan programme for the neighbourhood Solbjer in Lund from a microclimate point of view. An assignment for Lund municipality.
- 2010 Climate analysis of the area north of the Central Station in Malmö. An assignment for Jernhusen AB.
- 2009 Analysis and evaluation of the microclimatic and outdoor thermal comfort conditions in the block Kv. Spårvägen, N. Sorgenfri, Malmö. An assignment for Malmö municipality.

Exhibitions

- 2009 "What is sustainable?" HDM's projects related to sustainability and climate at the exhibition Talk Climate at Form/Design Center, Malmö, 13 Nov. 2009 – 10 Jan. 2010
- 1997 16th Session of the UN Commission on Human Settlements, Nairobi. Presented the Building Issues Exhibition. Participated in the Promoting Committee meeting of the Forum of Researchers on Human Settlements, held in Nairobi before the 16th Commission meeting.
- 1996 2nd United Nations Conference on Human Settlements (Habitat II), Istanbul, Turkey, 3–14 June 1996. Presented the Building Issues Exhibition. Various presentations at the NGO Forum.

Supervision and examination of doctoral students

Supervision of PhD students

- 2014– Main supervisor of Laura Liuke in the project “Household energy use linked to people’s life styles”.
- 2014– Co-supervisor of Anh Chu Tuan in the project “Urban ... Hanoi, Vietnam”
- 2013– Co-supervisor of Fabricio Montañó in the project “Inclusive high-density housing and environmentally friendly urban design in peri-urban areas of Sacaba, Bolivia”.
- 2012– Co-supervisor of Xia Wang in the project “Urban design methods based on low-carbon development”.
- 2010– Co-supervisor of Maria Rasmussen in the field “Informal settlements planning”.
- 2008– Co-supervisor of Moohammed Wasim Yahia in the project “Towards an environmental urban space in harmony with climatic conditions. A study in Damascus, Syria”. Licentiate thesis 2012, PhD to be completed in 2014.

Participation in referee committee of doctoral theses

- Marcelino Januário Rodrigues: “Improvement of Thermal Comfort in Buildings through Passive Design”. Div. of Construction Management, Dept. of Construction Sciences, Lund University, Sweden. December 2014.
- Marwa Dabaieh: “A Future for the Past of Desert Vernacular Architecture. Testing a novel conservation model and applied methodology in the town of Balat in Egypt”, Div. of Architectural Conservation and Restoration, Dept. of Architecture and Built Environment, Lund University, Sweden. December 2011.
- Henry Mwanaki Alinaitwe: “Improvement of Labour Performance and Productivity in Uganda’s Building Industry”. Div. of Construction Management, Lund University, Sweden. January 2008.

Examination of doctoral thesis

- Nadine Marie Josephe D'Argent: “A microclimatic and bioclimatic modelling assessment of the compact city morphology: a case study of Melbourne at 5 million”, Monash University, Melbourne, Australia. March 2013.

Examiner of licentiate thesis

- Karin Lundgren: “How will Climate Change Working Life? Impacts of Heat on Productivity and Health”, Dept. of Design Sciences, Ergonomics and Aerosol Technology, Lund University, Sweden. April 2014.

Teaching skills and pedagogical competence

Pedagogic education / career development

- 2011** Lund University Post-Doctoral Programme (luPOD), including 2 full day seminars on teaching and pedagogic skills, Lund University.
- 2010** Faculty of Engineering Docent Course, including supervision of doctoral students, 3 weeks, Faculty of Engineering, Lund University.
- 2010** “Projektbaserad kollegiekurs”, course on teaching for the staff of the dept. of Architecture and Built Environment, 2 weeks, Faculty of Engineering, Lund University.
- 2010** Introduction to Teaching and Learning in Higher Education, 2 weeks, Faculty of Engineering, Lund University.
- 2009** Course on supervision of doctoral students, 2 days, Faculty of Engineering, Lund University, Sweden.

Teaching experience

- 2012– Responsible for the course “Climate smart architecture and urban design”, Dept. of Architecture & Built Environment, Lund University
- 2010– Responsible for the course International sustainable construction (Internationellt hållbart byggande), LTH Campus Helsingborg, Lund University.
- 2007–11 Responsible for the course “Urban climate & sustainable development of the built environment”, Dept. of Architecture & Built Environment, Lund University
- 2000–04 Teaching in the international Master of Science programmes Urban Housing Management (2000–04), Housing and Inner City Revitalization (2003–04). (Responsible for the Building Technologies and Materials module.)
- 2000–04 Supervising field research and thesis writing on the MSc programme Urban Housing Management.

- 1997–03 Tutor and lecturer on the international postgraduate course Architecture, Energy and Environment.
- 1990–10 Lecturer on international postgraduate courses Architecture & Development, International Construction Management, Housing & Development and Urban Shelter.

Thesis supervision

Master theses

Main supervisor of the following MSc theses:

- 2014 Emil Ljung and Jim Alexandersson, Land Surveying, Faculty of Engineering, Lund University.
- 2007 Per Lundqvist and Ulf Arfwidsson: "Sustainable Energy Use in Tropical Urban Housing – Minor Field Study on Potential Use of Biogas and Solar Powered Air-Conditioning in Guayaquil, Ecuador". Environmental Engineering, Faculty of Engineering, Lund University
- 2002 Nikolai Jouro: "Self-help Housing in Belarus. Ways to Increase Housing in Urban Areas". Urban Housing Management, Erasmus University/Lund University

Bachelor theses

Main supervisor of 9 and examiner of 3 BSc theses in Byggteknik med arkitektur (LTH Helsingborg).

Languages

Swedish (mother tongue), English (fluent), Portuguese (almost fluent), French (almost fluent), Spanish (functional)