

## Curriculum Vitae

### Andrei NEJUR

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born: Zalău, Sălaj, Romania

Oct, 1979

## Education

**PhD in Architecture** – Summa cum Laude

Nov 09 – Feb 15

Technical University of Cluj-Napoca , School of Architecture and Urban Design

**Integrated BA+MA of Architecture**

Oct 98 – Jun 04

Technical University of Cluj-Napoca , School of Architecture and Urban Design

## Academic Experience

**Lecturer** – Technical University of Cluj-Napoca School of Architecture and Urban Design

Feb 2017

- architectural design studio 5<sup>th</sup> year

- computer assisted design

- ecological architecture

**FULBRIGHT Visiting Scholar Researcher** – University of California, Berkeley – Fulbright scholarship

Aug 15 – Jul 16

- research into digital design tools

**Assistant Lecturer** – Technical University of Cluj-Napoca School of Architecture and Urban Design

Apr 05 – Aug 15

- architectural design studio 5<sup>th</sup> year

- computer assisted design

- ecological architecture

**Visiting Instructor** – Technical University of Cluj-Napoca School of Architecture and Urban Design

Oct 05 – Mar 05

- architectural design studio 5<sup>th</sup> year

## Professional Experience

**Vice-President** – Romanian Order of Architects Transylvania Branch

May 14 – Ongoing

- managing the life long learning program for architects

- academia liaison

- supervising the certification requests from prospective members

**Architect, Principal Associate, Creative Director** – N2 Arhitectura – [www.n2arh.ro](http://www.n2arh.ro)

Sep 07 – Ongoing

- architectural design

- project management

- architectural competitions

- client relations

**Architect, Owner** – Andrei Nejur BIA (personal architectural bureau)

Oct 06 – Nov 09

- architectural design

- management, project management

- business management

**Architect** – ART Proiect SRL

Oct 04 – Oct 06

- architectural design

- project management

- site management

## Publications

### Books

- bk-01 **NEJUR Andrei**, Digitalul Ca Performanță în Arhitectură, UTPress, 2017, ISBN 978-606-737-219-9 Jan 17
- bk-02 **NEJUR Andrei**, Autorul de Arhitectură în Epoca Digitală, UTPress 2016, ISBN 978-606-737-204-5 Dec 16

### Book chapter

- pb-01 Editor:Iancu Adrian, TODORAN, Smaranda, **NEJUR, Andrei**, SZENTESI, Szende, BALAN Teodora, SPĂNU, Calin, MATEI, Adriana, Povestea Unui Proiect/Story of a project, Cluj-Napoca, U.T. Press, 2012, ISBN 978-973-662-751-4, pg 69-99 Nov 12

### Invited publications

- pa-01 **NEJUR Andrei**, IONESCU Sebastian, Clădire de Locuințe cu parter comercial pe strada Toplița nr. 10 Cluj-Napoca – Arhitext Design nr. 8 /2001 issn 1224-885x Aug 01

### Conference papers

- pc-00 **NEJUR Andrei**, Steinfeld Kyle, Ivy - Bringing a Weighted-Mesh Representation to Bear on Generative Architectural Design Applications, **ACADIA 2016 Posthuman Frontiers: Data, Designers and Cognitive Machines 27-29 October 2016 Ann Arbor Michigan**
- pc-01 **NEJUR Andrei**, Solar optimization of complex architectural geometry using generative tools, simulation and search algorithms, Proceedings of 2nd Conference for PhD students in Civil Engineering CE-PhD 2014, 10-13 December 2014, Cluj-Napoca, Romania Dec 14
- pc-02 **NEJUR Andrei**, The digital atrophy of classic architectural authorship, Proceedings of 2nd Conference for PhD students in Civil Engineering CE-PhD 2014, 10-13 December 2014, Cluj-Napoca, Romania Dec 14
- pc-03 **NEJUR Andrei**, MIRCEA Calin, Morphology and Urban Planning of a pedestrian Bridge- Proceedings of IASS-APCS 2012 From Spatial Structures to Space Structures, edited by Seung Swon KIM, Seoul South Korea – 2012 pag 389 May12
- pc-04 MIRCEA Calin ,**NEJUR Andrei**, Analysis of the structural performance of a Pedestrian Bridge Proceedings of IASS-APCS 2012 From Spatial Structures to Space Structures, edited by Seung Swon KIM, Seoul South Korea – 2012 pag 121 May 12
- pc-05 **NEJUR, Andrei**, Formal approach in 5th year studio design a case study, Questions International Workshop -Trends in Architectural and Urban Planning Education - Between Fundamental Approach and Research by Design, Universitatea Tehnica din Cluj-Napoca, Cluj-Napoca Romania,4-7 July 2012 Jul 12
- pc-06 **NEJUR, Andrei**, Passive cooling case studies, ENEF Conference and Exhibition “Energy efficiency strategies for buildings and urban areas” 10 September 2013, Tallin Estonia Sep 13

### Awards at Architectural, Design and Urban Design Competitions

- aw-01 **NEJUR, Andrei**, Szende Szentesi Special Jury Prize - Archetypes 2011 International Architecture Contest, Organizer Adveritas Sep 11
- aw-02 **NEJUR Andrei**, KOMAROMI Laurentiu, Second Prize - Architectural Contest for the Sălaj County Council Headquarters , Organizer Sălaj County Council – Zalău 2009 Jul 09
- aw-03 **NEJUR Andrei**, KOMAROMI Laurentiu, POP Adrian, MUGUR Neagu, Honorable Dec 13

	mention - Architectural contest for an integrated communication system in Cluj-Napoca 2013, Organizer Cluj-Napoca 2021 Foundation	
aw-04	<b>NEJUR Andrei</b> , KOMAROMI Laurentiu, POP Adrian, MUGUR Neagu, Third Prize - Contest for Improving the city center of Zalău, Organizer Municipality of Zalău	Sep 13
aw-05	<b>NEJUR Andrei</b> , KOMAROMI Laurentiu, POP Adrian, Second Prize at the Contest for Entry and Exit Signals for the county of Dâmbovița Organizer County Council of Dâmbovița	May 13
aw-06	<b>NEJUR Andrei</b> , KOMAROMI Laurentiu, Third Prize at the Transylvania Architecture Biennial of 2009 – Cluj-Napoca, Organizer OAR Transylvania	Nov 09
aw-07	<b>NEJUR Andrei</b> , Honorable mention - “Design Against Fur 2004” design contest, organizer Vier Photen	Sep 04
aw-08	<b>NEJUR Andrei</b> , Shortlisted entry - “Think outside the parking box” design competition, Organizer DesignBoom and Nissan, 2009	Sep 09

### Digital Tools

Practical research production in the field of Design Computation is not limited to the physical production of architectural prototypes. More often the innovative design methods developed in the field materialize into practical design tools as free and open source software. This is usually one of the best theory to practice shortcuts for fast implementation of novel ideas and new technology in the field of digital design.

sw-01	<b>IVY for Grasshopper.</b> Andrei Nejur	Feb 2016
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An add-on for the popular visual scripting platform inside Rhino3d nurbs modeler. Ivy is a mesh exploration, partition and unfolding tool designed for fast and cheap model 3d fabrication and production. The design tool uses notions and algorithms from Graph Theory and applies them towards a hierarchical mesh decomposition.  
[research.n2arh.ro/ivy](http://research.n2arh.ro/ivy)

sw-02	<b>Lillebrot for Grasshopper</b> Andrei Nejur	Oct 2015
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An add-on for Grasshopper created for collecting and interpreting into geometry information from an Android smartphone app via a web-server. The app created by Kyle Steinfeld and Luis Jaggy collects indoor and outdoor geolocations and activity information from participating smartphones. The Grasshopper Add-on created by myself is in fact a translator of this information into geometry native to the Rhinoceros Nurbs modeling program.  
The add-on was recently presented and used as part of a workshop held during Design Modeling Symposium in Copenhagen, hosted by CITA. Workshop tutors Lynnete Widder, Jessie Braden, Joy Ko, Kyle Steinfeld)

### Grants and Funded Research

fr-01	<b>Fulbright Junior Research Grant</b> Conducting research into digital architecture at University of California Berkeley College of Environmental Design The US-Romanian Fulbright Commission	Aug 15 – June 16 \$28,000
fr-02	<b>Graduate Mobility Funding</b> Study and research abroad fellowship EU Erasmus Exchange program at University of Liverpool Erasmus EU mobility program.	Feb 02 – Jul 02 \$2,500

### Professional activities

## Workshops

Workshops embody a the hybrid nature of digital design research. They are both a theoretical playground and a practical testing facility for any research hypothesis. As an event they are also at the border between research and dissemination of results. It is an honor to be invited to present and tutor at such events and even more so to be invited to lead one.

- ws-00      **Working with Ivy for Grasshopper** – 1 day event to introduce the functions of Ivy for Grasshopper to UC Berkeley CED students and test the research behind Ivy through practical projects.      Mar 15
- ws-01      **Grasshopper Intro** – led a 2 day workshop as part of the Variable Parameter Course Arch 259 taught by assist prof. Simon Schleicher at UC Berkeley CED. The workshop focused on showcasing the basic generative functionalities of Grasshopper to the student participants through a series of examples and practical exercises.      Oct 15
- ws-02      **ZA2015** – workshop leader for the event organized during Architecture Days Student Festival in Cluj-Napoca.      Jan 15
- The workshop explored the idea of a floating algorithmically designed pavilion on a body of water in the same city. As the workshop leader I was in charge of presenting the generative tools and technologies available for construction and for steering the design initiatives of the involved participants towards functional and feasible outcomes.  
Tools used Rhino and Grasshopper, Kangaroo, Weavebird
- ws-03      **ZA2013** – workshop instructor for the event organized during Architecture Days Student Festival in Cluj-Napoca.      Nov 12
- This edition of the workshop explored the design and creation of a grid-shell pavilion as the flagship structure for the festival. Generative form finding techniques were employed to predict and build the shape of the pavilion to be built from thin wooden laths.  
Co-lead the workshop with Daniel Piker (McNell), David Stasiuk (CITA) and Dragos Naicu (University of Bath)  
Tools used Rhino and Grasshopper, Kangaroo, Weavebird, FabTools
- ws-04      **Introduction to Parametric Design** – workshop leader and instructor      Mar 14 – Apr 14
- A three weekend event geared towards introducing generative design techniques and form finding strategies to students of the TU Cluj-Napoca School of Architecture and Urban Design.  
Tools used. Rhino, Grasshopper, Geko, Kangaroo, Ladybug, Weaverbird.

## Invited conferences

- ic-01      **ENEF Conference and Exhibition** "Energy efficiency strategies for buildings and urban areas" 10 September 2013, Tallin Estonia  
- presented a paper on Passive cooling case studies and part of a jury on a student competition on designing passively cooled building.

## Professional affiliations

pa-01	<p><b>Member OAR</b>  The Romanian Order of Architects (Ordinul Arhitecților din România OAR) is the largest architect professional organization in Romania and the official entity awarding certification for architectural practice in my country. As part of the OAR I serve on the Transylvania Board and as the vice-president of Transylvania Branch.</p>	Oct 06 – present
pa-02	<p><b>Member RUR</b>  The Romanian Urban Planner Registry gathers all the registered urban planners in the country.</p>	Nov 08 – present
	<p><b>Peer Reviewer</b>  Invited peer reviewer for Emerald Group Publishing section Management of Environmental Quality</p>	Jun 15

### Courses and Seminars Instructed

	<p>I teach a course at TU Cluj-Napoca Faculty of Architecture and Urban Design and also instruct in the Studio Design Synthesis 5<sup>th</sup> year and Computer Assisted Design seminar 1<sup>st</sup> and 2<sup>nd</sup> year.</p>	
cs-01	<p><b>D44.00 Ecological Architecture</b>  Together with another professor I teach the Ecological Architecture course for 3<sup>rd</sup> year architecture program. As a newly introduced course I also was responsible for creating part of the curricula and the teaching material.</p>	Sept 13 – Jul 15
cs-02	<p><b>D84.00 Studio Design Synthesis 3</b>  Studio Design Synthesis is the core discipline for the first semester of the 5<sup>th</sup> year of architecture school – equivalent to the second year masters degree. Here students tackle the most complex architectural projects during their architectural formation. As part of the studio I was responsible in guiding a group of 13-15 students and part of the final critique panel for the whole class.</p>	Sept 05 – Jul 15
cs-03	<p><b>D91.00 Studio Design Synthesis 4.</b>  Similar to above. Second semester 5<sup>th</sup> architecture school equivalent to 2<sup>nd</sup> year integrated masters degree.</p>	Sep 05 – Jul 15
cs-04	<p><b>D6.00 Computer Assisted Design 1</b>  Seminar dealing with the basics of Computer Assisted Design Representation. First year architecture school equivalent to first year bachelor degree.</p>	Sep 07 – Jun 13
cs-05	<p><b>D36.00 Computer Assisted Design 2</b>  Seminar dealing with more advanced topics of CAD and also with BIM, advanced representation and basics of algorithmic design. Second year architecture school equivalent to second year bachelor degree.</p>	Feb 08 – Jun 15

### Mentorship

Guiding students through their final diploma project and through their dissertation is one of the most important job parts of my academic engagement. Often the mentorship job is intertwined with research interest shared with the students in the environmental design and digital design thinking. Below is a list of students I have mentored for their final practical project the Diploma project and also for the theoretical project the Dissertation.

Andreea Dobra	Fall 13
Alexandra Ghețe	Fall 13
Mircea Negrea	Spring 14
Lucreția Scridon	Fall 13
Cosmin Câmpan	Spring 14
Oana Vlad	Fall 13

### University service and administration

Below are the administrative and service positions I served during my time at  
TU Cluj-Napoca  
Member Entrance Admission Examination Organizing Committee  
Secretary for the Diploma Committee  
Member Entrance Admission Committee

06,07,08  
10,11,12  
13

### Miscellaneous information

#### Languages spoken

Romanian – Native  
English – Fluent – Toefl Score 109/120  
German – Very Good

Apr 14

#### Sports practiced at a competition level

Basketball – Highschool/College  
Mountainbiking Marathons

### Additional Information

Digital Research Repository  
<http://research.n2arh.ro/>

Personal Porfolio  
<https://www.behance.net/nejur>

Architectural Practice Portfolio  
<http://n2arh.ro/lucrari>

February 22, 2017

Andrei Nejur