# Curriculum Vitae

*Federico Borello (B. Arch, M.Sci, M.Arch)*
*ARB, OAT*

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## Professional Experience

### Zaha Hadid Architects, London
March 2017 - Current

*Architect at ZHCODE, Computation Design Research Group. Practice led research and development on the topic of design, computation and digital fabrication.*

### Atkins Global, London
March 2016 – Apr 2016

*Computational design consultant for international masterplan competition, modeling and digital prototyping.*

### Camerana and Partners, Turin
April 2014

***Invited Competition**, **Finalist**. Competiotion for Alfa Romeo unveiling show of the Giulia*

### Gufram Barolo
Feb 2014 – Apr 2014

*Design and development of new products by international designers: Karim Rashid, Ross Lovergrove, Studio Job, Maurizio Cattelan, Marcel Wanders.*

### Studio Griffa, Turin
March 2016 – Apr 2016

***Invited**, **Unbuilt**. Façade design for the Future Food District EXPO 2015 (CRA, Carlo Ratti Associati), Milan.*
***Invite**, **Built**. Installation for the Architecture Venice Biennale 2012: "Traces of Centuries and Future Steps" exhibition at Palazzo Bembo.*
***Invite**, **Built**. BIO23 Ljubjana Design Biennale (as above).*
***Invite**, **Built**. Interior design of Delonghi Flagship Store, Milan.*
***Invite**, **Built**. Artissima 18, installation "Laboratorio Stat Machines", Turin.*

### Boglietti Associati, La Morra
March 2016 – Apr 2016

*Modeling and rendering for private commissions..*

# Academic Experience

### Architectural Association School of Architecture, London
May 2019 – July 2019
> DRL Software Consultant: C++ computer programming, Maya polygonal modeling, robotic hot wire cut.

### Architectural Association School of Architecture, London
Feb 2019 – Mar 2019
> DRL Workshop: C++ computer programming and physics based modeling. Polygonal modeling in Maya of structurally aware geometries.

### Architectural Association School of Architecture, London
Oct 2018 – Nov 2018
> robotic clay 3d printing of structurally aware geometries and image based function representation (FREP) modeling in C#/Grasshopper.

### Bartlett School of Architecture, London
Sep 2018 – Oct 2018
> C++ computer programming and physics based modeling. Polygonal modeling in Maya of structurally aware geometries.

### Tongji University, Shanghai
Jun 2018
> ZHCODE workshop "Print Fast, Pile High": robotic clay 3d printing of structurally aware geometries and image based function representation (FREP) modeling in C#/Grasshopper.

### Architectural Association School of Architecture, London
Oct 2015 – Jan 2017
> Digital Prototyping Lab assistant, responsible for CNC machinery and robotic arm.

### Polytechnic of Turin School of Architecture, Turin
2012
> Teaching assistant, modeling Rhino and Grasshopper .

# Education

### Architectural Association School of Architecture, London
2015-2017
> DRL, Design Research Laboratory
> Tutors: Shajay Bhooshan, Alicia Nahmad, David Reeves, Vishu Bhooshan
> Thesis: DNA, Descrete Network Assembly

### Polytechnic of Turin School of Architecture, Turin
2012-2014
> Master of Science (M.Sci)
> 110 cum laude, Honorable Mention and Publication, Archiprix Italia Candidate
> Tutors: Arch. Cesare Griffa, Arch. Roberto Giordano, Prof. Mario Tredici
> Thesis: BIOCLAD:Biodigital Adaptive Cladding System

### RPI Rensselaer Polytechnic Institute, Troy (New York)
Aug 2012- Dec 2012
> Scholarship - Visiting Scholar
> Courses: Reticulated Form: Full Scale Prototyping, Sartorial Tectonics, Sensory Culture

### Polytechnic of Turin School of Architecture, Turin
2008-2012
> *Bachelor of Architecture (B.Arch)*
> *Tutor: Arch. Cesare Griffa*
> *Thesis: Parametric Architecture: Perceive, Act, Live*

### Scientific High School, Alba
2003-2018


## Workshops

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### Architectural Association School of Architecture, London
July 2012
> *Visiting School – London Après City*

### Architectural Association School of Architecture, London
May 2013
> *Visiting School – Form as Dynamic Unknown*
> *Tutors: Arturo Tedeschi (A|T), Lorenzo Vianello (F+P), Josef Musil (F+P), Lawrence Friesen (Buro Happold)*

### Buildsmart2011: Parametric Design, Turin
Aug 2011- Sept 2011
> *Workshop held by Polytechnic of Turin and RPI Rensselaer Polytechnic Institute*
> *Tutors: Arch. Cesare Griffa, Lonn Combs (RPI)*

### Smart Building in Torino Smart City, Turin
Sep 2011- Oct 2011
> *Invited workshop for 1$^{st}$ prize Turin School of Architecture and the city of Turin*
> *Tutor: Hugh Dutton (HDA, Paris)*


## Languages

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*Italian (mother tongue), English (Professional), French (Basic)*


## Skills

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**Programming:** *C#, C++, RhinoCommon, OpenGL, Octave*
**3D Modelling:** *Rhinoceros, Grasshopper, Maya*
**Robotic Fabrication:** *6 Axis robotic arm, hot wire cut (HWC), CNC, lasercut*
**Graphics:** *InDesign, Photoshop, Illustrator, Premier, Aftereffect*
**Statistical Learning:** *Machine Learning, Stanford University (Coursera Certicate)*


## Selected Works

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### Meta-Utopia Exhibition, Zaha Hadid Design Gallery
*Robotically fabricated compression network developed with ZHCODE..*

### Master Thesis
*BIOCLAD: Biodigital Adaptive Cladding System.*
*Publication by Polytechnic of Turin, www.architesi.polito.it*
*ArchiPrix Italia Candidate*