



Universal Joint Design Build, LLC

Jonathan David Chertok
Born 22 January, 1966
Boston Massachusetts

Jonathan is the principal of Universal Joint Design Build, LLC which he founded in 2000 in Austin, Texas. He was born in Boston and holds a Bachelor of Arts in Political Science from the University of Michigan and a Masters of Architecture from the University of Texas at Austin. At the University of Texas he studied under Christopher MacDonald, Paul Shephard and Marcus Novak.

Prior to graduation he worked in the office of the Pritzker Prize winning Architect Renzo Piano where he worked on such prestigious projects as the Cite Internationale development in Lyon, Maison Hermès Boutique in Tokyo, the renovation of the Centre Georges Pompidou in Paris and the Ferrari Factory Wind Tunnel in Maranello Italy. Jonathan has worked for CBT Architects in Boston and upon returning to Austin he has worked on projects such as the Austin-Bergstrom International Airport Hilton Hotel, the Austin Convention Center Hilton Hotel and the Austin Convention Center Addition.

Jonathan was the recipient of the Mebane Endowed Traveling Scholarship in Architecture and has exhibited research at the prestigious ACM SIGgraph Conference in Los Angeles and at the Pompidou Center during the Advances in Architectural Geometry Conference in Paris. His work was also recently published in Wired Magazine.

Education

- Masters of Architecture, The University of Texas at Austin, December 1998.
- Bachelor of Arts in Political Science, The University of Michigan, 1989.

Professional Experience

- Universal Joint Design Associates; Austin Texas, 2000 - present.
- CKNR Architects; Austin Texas, 1999 - 2000.
- Renzo Piano Building Workshop; Paris France, 1998 - 1999.

Exhibitions + Awards

- Advances in Architectural Geometry. Structure in 4D: Modified Translations with Surgery. Presentation of juried architectural research at the Pompidou Center in Paris, 2012.
- TEX-FAB Repeat Competition, Honorable Mention for *Bone Machine* from an international Jury that included Patrik Schumacher (Zaha Hadid Architects), Chris Lasch (Aranda Lasch), Marc Fornes (theverymany) and Lisa Iwamoto (Iwamoto Scott). Exhibition in Houston Texas, 2011.
- ACM SIGGRAPH. Exhibition of *Artifacts of Research* at the Association of Computing Manufacturing's International Conference on Computer Graphics and Interactive Techniques, Los Angeles CA, 2008.
- The Mathematics Museum in Manhattan, *Clebsch Diagonal Surface with Numbers*. 2011 - present.
- University of Hong Kong Department of Mathematics. Permanent exhibition of *Artifacts of Research*, Hong Kong. 2008 - present.
- Intersculpt/Ars et Mathématique. *Works-in-progress*, Paris France, 1999 - 2007.
- Mebane Endowed Traveling Scholarship in Architecture, University of Texas at Austin, 2000.

Presentations

- *Work and Research*. Presented to the Geometric Modeling and Industrial Geometry Group at TU Wien. Vienna Austria, 2011.

Selected Publications

- Wired Magazine, "This is What Math Equations Look Like in 3-D" by Joshua Batson, June 2014.
- Austin Monthly Homes Magazine: *Grover Residence*, 2011.
- Metal Architecture Magazine: *Grover Residence*, 2011.
- AWM Magazine (Holland): *Bone Machine*, 2011.
- Bustler: *Bone Machine*, 2011 [online].
- ACM Digital Library. *Artifacts of Research*, 2008 [online].

Academic Citations

- "Illustrating the Classification of Real Cubic Surfaces" in Algebraic Geometry and Geometric Modeling: Elkadi, Mourrain and Piene, Eds. 2011 Springer.
- La Collezione dei Modelli Geometrici. University of Torino Department of Mathematics in collaboration with Accademia Ligustica Belle Arti di Genova, 2007.
- "Creating a Mathematical Museum on your Desk." George W. Hart. *Mathematical Intelligencer*, 27, No 4, Winter 2005.
- Stewart Dickson. NSF Grant Proposal. Web publication, 2002.

Committees

- City of Austin 2006 International Residential Code (IRC) Adoption Committee.
- City of Austin 2006 International Building Code (IBC) Adoption Committee.

Membership

- The Association for Computing Manufacturing.
- International Association for Shell and Spatial Structures (IASS).
- TEX-FAB.
- Wolfram Partner.



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