Bruno Benedetti

Work Experience

Current Aug 2015	**Assistant Professor at University of Miami, Florida** Tenure track position. Teaching 3 courses per year.
Mar 2013-Jul 2015	**Postdoc at Freie Universität, Berlin, Germany** At the Computer Science department, co-leading the project "Discrete Morse theory".
Aug 2014-Dec 2014	**Visiting researcher at Northeastern Univ., Boston, Massachusetts** Taught the Calculus 2 course for engineering majors.
Sep 2011-Feb 2013	**Postdoc at Royal Institute of Technology, Stockholm, Sweden** Research-only position mentored by Anders Björner, first with a Göran Gustaffson grant, then with a personal grant from the Swedish Research Council.
June 2010-Sep 2011	**Postdoc at Technische and Freie Univ., Berlin, Germany** Research-only position within Günter Ziegler's ERC grant 'SD Models'.

Education

January	2010	**PhD in Mathematics, Technische Universität Berlin, Germany** summa cum laude — Advisor: Günter M. Ziegler Field: Discrete Geometry — Thesis: "On locally constructible manifolds"
July	2006	**MSc (Laurea Specialistica) in Mathematics, Univ. Genova, Italy** summa cum laude — Advisor: Aldo Conca Field: Commutative Algebra — Thesis "On the arithmetic rank of algebraic varieties"
July	2004	**BSc (Laurea Triennale) in Mathematics, Univ. Genova, Italy** summa cum laude — Advisor: Stef H. Tijs Field: Game Theory — Thesis "Composition of bankruptcy rules"

Impact

- Researcher in geometry and combinatorics, with a special focus on simplicial complexes, convexity, and computational topology.
- Supported (as principal investigator) by NSF grant 1600741, "Geometric combinatorics and Discrete Morse Theory". Winner of Provost Research Award and of Scholary & Creative Recognition Award, University of Miami, 2017. Several European grants obtained, among which one Vetenskapsrådet personal grant (Sweden), one Göran Gustaffson grant (Sweden), two national INDAM grants (Italy).
- Published in several top journals, among which Acta Mathematica (with G. M. Ziegler), Mathematics of Operations Research (with K. Adiprasito), Experimental Mathematics (with F. H. Lutz), International Math. Research Notices (with M. Varbaro), Nuclear Physics B, Transactions of the AMS, and Annali Scuola Normale Superiore (as single author).
- Accepted 106 invitation for talks, of which 48 in the United States (among others, at Berkeley, Caltech, Ucla, Davis, UW, Courant, Cornell, Ohio State, Washington U St Louis, Boston College, Texas A&M); 56 in Europe (e.g. at Rome La Sapienza, MFO Oberwolfach, U Geneva, U Vienna); 2 in Southern America (Bogotá Las Andes, U Buenos Aires).
- Organized (or co-organized) 6 conferences or schools, among which the first summer program ever held at Institut Mittag Leffler, Sweden, in 2012.
- Advised one master student at U Bari, Marco Macchia (now PhD student in Bruxelles).