

# Prof. Günter M. Ziegler

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## CV

- 1963 Born in München (Munich), Germany  
Citizenship: German
- 1981–1984 Student of Mathematics and Physics, Ludwig-Maximilians-University, Munich
- 1984–1987 Student, Massachusetts Institute of Technology, Cambridge, MA
- 1987 Ph.D. at MIT. Advisor: Prof. Anders Björner  
Thesis: “Algebraic Combinatorics of Hyperplane Arrangements”
- 1987–1991 Postdoc at Augsburg University, with Prof. Martin Grötschel
- 1991–1992 Special year on “Combinatorics”, Institut Mittag-Leffler, Djursholm, Schweden
- 1992–1994 Research scientist at Konrad-Zuse-Zentrum für Informationstechnik Berlin (ZIB);  
Deputy of Martin Grötschel for the “Combinatorial Optimization” department
- 1992 Habilitation, TU Berlin: “Combinatorics and Topology of Subspace Arrangements”
- 1992–1994 Privatdozent, TU Berlin
- 1993–2000 Faculty Member, DFG Research Training Group “Algorithmic Discrete Mathematics”
- 1995–2011 Professor of Mathematics, TU Berlin
- 2001 Visiting Miller Research Professor, UC Berkeley
- 2000–2005 Faculty Member, DFG Internat. Research Training Group  
“Combinatorics, Geometry, and Computation”
- 2006–2011 Chair, DFG Research Training Group “Methods for Discrete Structures”,  
since then Co-Chair and Faculty Member
- 2006–2007 Founding Chair, “Berlin Mathematical School”  
since then Co-Chair and Member of the Executive Board
- 2011– **Matheon-Professor of Mathematics, Freie Universität Berlin**
- 2016– Chair, “Berlin Mathematical School”

## Fields of Research:

Discrete Geometry, in particular polytopes, equivariant problems;  
Combinatorics, Topological Methods, configuration spaces;  
Discrete Differential Geometry;  
Science Communication; Teaching and Popularization of Mathematics

**Dissertations supervised:** 29 completed, 5 current.

**Habilitations mentored:** 7 completed, 1 current.

## Publications

More than 150 scientific papers, and six books  
among them “Lectures on Polytopes” (Springer 1995, 7th revised printing 2007)  
and “Proofs from THE BOOK” (Springer 1998, with Martin Aigner; 5th edition 2014),  
Numerous popular contributions, newspaper columns, etc., in particular the books  
“Do I Count? Stories from Mathematics” (CRC Press, 2013)  
“Mathematik – Das ist doch keine Kunst” (in German, Knaus, 2013)

## Prizes, Distinctions, Functions

- 1980,1981 Federal winner, Federal Mathematics Competition “Bundeswettbewerb Mathematik”
- 1981 First Prize, International Mathematical Olympiad, Washington DC
- 1981–1986 Fellow, Studienstiftung des Deutschen Volkes (German National Scholarship Foundation)
- 1982 Federal winner Mathematics/Computer Science, National Science Fair “Jugend forscht”
- 1985–1986 Norman P. Levinson Graduate Fellowship at MIT
- 1986–1987 Alfred P. Sloan Dissertation Fellowship
- 1991–1992 Postdoctoral fellowship of Swedish Science Foundation NFR
- 1994 Gerhard Hess Prize, Deutsche Forschungsgemeinschaft (German Science Foundation) DFG
- 1995–1998 “Konrad-Zuse-Fellow” at ZIB Berlin
- 1997–2000 Member of Executive Board and Editor of the “Notices” (*Mitteilungen der DMV*),  
Deutsche Mathematiker-Vereinigung (German Mathematical Society) DMV
- 2001 **Gottfried Wilhelm Leibniz Prize**, DFG
- 2001–2016 **Scientific Board, Math. Forschungsinstitut Oberwolfach**  
Member; since 2012 Chair
- 2002 Invited Lecture, International Congress of Mathematicians ICM2002, Beijing, China
- 2002– Member, Berlin-Brandenburg Academy of Sciences (since 2010: Board Member)
- 2006 Chauvenet Prize, Mathematical Association of America (MAA), with F. Pfender
- 2006–2008 **President, Deutsche Mathematiker-Vereinigung** DMV
- 2007–2008 Initiator and Co-Organizer, German National “Year of Mathematics 2008”
- 2009– Director, “Mathematics Media Office” of DMV
- 2010– Co-Director, “Network Office Schools–Universities” of DMV
- 2008 **Communicator Prize** of DFG and of Stifterverband für die Deutsche Wissenschaft
- 2009 Election to the German National Academy of Science, Leopoldina
- 2009– Member and Co-Chair, Scientific Board of FIZ Karlsruhe
- 2010 Invited Presentation, International Congress of Mathematicians ICM2010, Hyderabad, India
- 2010–2015 **ERC Advanced Grant** “SDModels: Structured Discrete Models as a basis for studies in  
Geometry, Numerical Analysis, Topology, and Visualization”
- 2011– Member, Executive Board, Deutsche Mathematiker-Vereinigung DMV
- 2011–2015 Organizer and Chair, Jury, Euler-Lecture in Sanssouci, Potsdam
- 2012– Fellow, American Mathematical Society
- 2012– Board Member, Collaborative Research Center “Discretization”
- 2013 Hector Science Prize, with appointment as “Hector Fellow”
- 2013– Member, Executive Board, Einstein Center for Mathematics (ECMath), Berlin
- 2013 Election to the German National Academy of Science and Engineering, acatech
- 2014 Invited Lecture, International Congress of Mathematicians ICM2014, Seoul, Korea
- 2014– Member of the Senate, Deutsche Forschungsgemeinschaft
- 2016– Member of the Jury, Alfried Krupp-Förderpreis für junge Hochschullehrer
- 2016– Member of the Scientific Council, Fondation Mathématique Jacques Hadamard, Paris