

# Curriculum Vitae

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<i>Date of birth:</i>	09.09.1977	<i>Nationalities:</i>	Swiss and Portuguese
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## Schools and diploma

2007-	Universitair docent at Utrecht.
2005-2007	SFB postdoc at Münster.
June 2005	Ph.D. thesis under the supervision of Michael Hopkins.
2003-2005	Graduate student at MIT.
2000-2002	Graduate student at Berkeley under the supervision of Allen Knutson.
1999-2000	Assistant teacher at the University of Geneva.
June 1999	Diplôme de Mathématiques under the supervision of Vaughan Jones.
1995-1999	Undergraduate studies in mathematics at the University of Geneva.

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## Publications and preprints

(with Christopher Douglas and Michael Hill) *Homological obstructions to string orientations*, [arXiv:0810.2131].

(with David Speyer) *The Multidimensional Cube Recurrence*, [arXiv:0708.2478], submitted to Advances in Mathematics.

(with David Gepner) *Homotopy Theory of Orbispaces*, [math.AT/0701916], submitted to Advances in Mathematics.

(with Matthew Ando, Simeon Hellerman, Tony Pantev and Eric Sharpe) *Cluster Decomposition, T-duality, and Gerby CFT's*, Advances in Theoretical and Mathematical Physics 11 (2007), no. 5

*A periodicity theorem for the octahedron recurrence*, J. Algebraic Combin. 26 (2007), no. 1, 1–26.

*Integrating  $L_\infty$ -algebras*, [math.AT/0603563], accepted in Compositio Mathematica.

(with Giovanni Felder, Carlo Rossi and Chenchang Zhu) *A Gerbe for the Elliptic Gamma Function*, [math.QA/0601337], Duke Mathematical Journal 141 (2008) no.1, 1–74.

(with Pavel Etingof, Joel Kamnitzer and Eric Rains) *The cohomology ring of the real locus of the moduli space of stable curves of genus 0 with marked points*, [math.AT/0507514], accepted in Annals.

*Orbispace*s, MIT doctoral thesis.

(with Laurent Bartholdi and Volodia Nekrashevych) *Automata, Groups, Limit Spaces, and Tilings*, Journal of Algebra 305 (2006), no. 2, 629–663.

(with Joel Kamnitzer) *The octahedron recurrence and  $\mathfrak{gl}_n$ -crystals*, Advances in Mathematics 206 (2006), no. 1, 211–249.

(with Joel Kamnitzer) *Crystals and coboundary categories*, Duke Mathematical Journal 132 (2006), no. 2, 191–216.

(with Megumi Harada and Tara Holm) *Computation of generalized equivariant cohomologies of Kac-Moody flag varieties*, Advances in Mathematics 197 (2005), no. 1, 198–221.

(with David Metzler) *Presentations of noneffective orbifolds*, Transactions of the A.M.S. vol 356, number 6, (2004) 2481-2499,

*An analogue of convexity for complements of amoebas of varieties of higher codimension, an answer to a question asked by B. Sturmfels*, Advances in Geometry 4 (2004), 61-73.

*Note de Floristique Genevoise 86*, Saussurea No 29 (1998).

*Note de Floristique Genevoise 73*, Saussurea No 28 (1997).

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## Contests and Awards

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| May 2002   | Charles B. Morrey Jr. award in recognition of exceptional scholarship in mathematics.   |
| Sept. 1995 | Took part in the 7th European Contest for Young Scientists at Newcastle-upon-Tyne, UK, with the work <i>Stellated Polyhedra and Tilings</i> .   |
| May 1995   | Took part in the contest “La Science Appelle les Jeunes” (national Swiss Contest for Young Scientists) with the work <i>Polyhèdres et pavages étoilés</i> . Qualified as excellent and was selected for the European contest. |

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## Conferences and Seminars organized

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| Fall 2008   | Graduate student seminar on <i>Stable homotopy theory</i> , Utrecht. |
| Spring 2008 | Graduate student seminar on <i>Twisted K-theory</i> , Utrecht.       |
| Fall 2007   | Graduate student seminar on <i>Infinity categories</i> , Utrecht.    |

March 2007	(with Chris Douglass, John Francis and Mike Hill) “ <i>Talbot 07</i> ”: 6 day workshop <sup>1</sup> on <i>Topological modular forms</i> with Michael Hopkins as mentor, New Hampshire.
Spring 2006	Graduate student seminar on <i>Loop groups and they representation theory</i> , Münster.
Feb. 2006	(with Chris Douglass, John Francis and Mike Hill) “ <i>Talbot 06</i> ”: 6 day workshop on <i>Automorphisms of manifolds</i> with Michael Weiss as mentor, New Hampshire.
March 2005	(with Chris Douglass, John Francis and Mike Hill) “ <i>Talbot 05</i> ”: 5 day workshop on <i>Geometric Langlands</i> with David Ben Zvi as mentor, New Hampshire.
Fall 2004	Graduate student seminar on <i>Equivariant homotopy theory</i> , MIT.
March 2004	(with Chris Douglass and Mike Hill) “ <i>Talbot 04</i> ”: 4 day workshop on <i>Geometric models for elliptic cohomology</i> with Stephan Stolz as mentor, Vermont.
Spring & Fall 2001	(with Nick Proudfoot) Graduate student seminar “ <i>Many cheerful facts</i> ” at Berkeley.
Spring 2000	Graduate student seminar at Geneva university.

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## Referee work

2008 - Journal of Topology.  
2008 - L’Enseignement Mathématique.  
2007 - Transactions of the AMS.  
2007 - L’Enseignement Mathématique.  
2007 - Selecta Mathematica.  
2007 - Duke Mathematical Journal.  
2006 - Journal of Pure and Applied algebra.  
2005 - International Mathematics Research Notices.  
2002 - Journal of the American Mathematical Society.  
2002 - L’Enseignement Mathématique.

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## Conferences attended

Sept. 08      Operator Algebras and conformal Field Theory, Vienna, Austria.  
Aug. 08        Algebraic topology, Arolla, Switzerland.  
Aug. 08        Moment maps, Lausanne, Switzerland  
June 08        Homotopical Group Theory and Topological Algebraic Geometry, Bonn, Germany  
April 08       Ninth NRW Topology Meeting, Münster, Germany.  
Jan. 08        Foundations and Constructive Aspects of QFT, Göttingen, Germany.  
Oct. 07        Lie algebroids and Lie groupoids in Differential geometry, Bakewell, UK.

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<sup>1</sup>More information about the Talbot workshop series can be found at <http://www-math.mit.edu/~jnkf/talbot/>

Sept. 07 Homotopy theory and Lie groups, Aberdeen, UK.  
 Aug. 07 Abel Symposium, Oslo, Norway.  
 June 07 Algebraic topology old and new, Bedlewo, Poland.  
 May 07 Poisson geometry and Applications, Oberwolfach, Germany.  
 March 07 Topological Modular Forms, rural New Hampshire.  
 Oct. 06 Arbeitsgemeinschaft on Twisted  $K$ -Theory, Oberwolfach, Germany.  
 Sept. 06 Topology, Oberwolfach, Germany.  
 Aug. 06 I.C.M. Madrid, Spain.  
 June 06 Knots and Physics, Strasbourg, France.  
 May 06 Teichmüller Theory and Cluster Algebras, Leicester, UK.  
 March 06 Alpine Operad Workshop, Villars, Switzerland.  
 Feb. 06 Automorphisms of manifolds, rural New Hampshire.  
 Jan. 06  $K$ -Theory, Cyclic homology and Operads, Strasbourg, France.  
 June 05 Lie Groups: from Topology to Arithmetic, Zurich and Geneva, Switzerland.  
 June 05 Conference on Pure and Applied Topology, Isle of Skye, Scotland.  
 June 05 Geometric Topology and Connections with Quantum Field Theory, Oberwolfach.  
 May 05 Moment maps in various geometries, Banff, Canada.  
 March 05 Geometric Langlands, rural New Hampshire.  
 Sept. 04 Forms of homotopy theory: elliptic cohomology and loop spaces, Fields Inst., Canada.  
 Aug. 04 Algebraic topology, Arolla, Switzerland.  
 June 04 Groupoids and stacks in geometry and physics, Luminy, France.  
 June 04 Classifying spaces for families, Münster, Germany.  
 June 04 Conference in honor of J.C.-Hausmann, Geneva, Switzerland.  
 March 04 Geometric models for elliptic cohomology, rural Vermont.  
 Oct 03 Topological modular forms, Münster, Germany.  
 Aug. 03 Lie groupoids and Lie algebroids, Vienna, Austria.  
 July 03 Satellite to the ICMP on categorification, Lisbon, Portugal.  
 July 03 Groupoids and stacks in geometry and physics, Oberwolfach, Germany.  
 June 03 Poisson geometry, quantization and representation theory, Bruxelles, Belgium.  
 June 03 Group theory, Gaeta, Italy.  
 March 03 AMS regional meeting, New York city.  
 Nov. 02 Geometry and topology of quotients, Tuscon, Arizona  
 Aug. 02 Satellite to the ICM on Stringy orbifolds, Chengdu, China.  
 May 02 Modern homotopy, Lille, France.  
 Nov. 01 AMS regional meeting, Irvine, California.  
 June 01 Summer school on symplectic geometry, Paris, France.  
 June 00 Groupes et langages, Neuchâtel, Switzerland.  
 March 99 Distributions non intégrables, Diablerets, Switzerland.  
 Sept. 99 Groupes quantiques et théorie des noeuds, Strasbourg, France.

