

**1) Education and employment**

Born in Vienna (Austria) 23 July 1954.

Studies of Mathematics at the Technical University of Vienna and the Universities of Munich and Salzburg.

1978: Diploma ( $\equiv$  Master) degree in Mathematics at the Technical University of Vienna.

1980: Ph. D. in Mathematics at the University of Salzburg (supervisor: P. Gerl).

1980–81: Research grant at the University of Salzburg.

1982–88: University assistant (Assistant professor) at the Institute of Mathematics and Applied Geometry of the Montanuniversität Leoben (Austria).

1984–85: on leave, research fellowship (sponsored by the Italian CNR) at the Department of Mathematics of the University of Rome (research group of A. Figà-Talamanca).

1985: “Habilitation” in Mathematics at the University of Salzburg.

1987: Biennial prize (Förderungspreis) of the Austrian Mathematical Society.

1988–1994: Associate professor for Mathematical Analysis at the University of Milan (Italy).

1994–1999: Full professor of Probability and Statistics at the University of Milan (Italy) and (1998–1999) at the second University of Milan.

Since September 1999: Full professor of Mathematics at the Graz University of Technology (TU Graz).

Since October 2022: Emeritus professor at TU Graz.

**2) Organizational duties and activities**

1990–1999: Associate Editor of the journal “Circuits, Systems and Signal Processing” (Birkhäuser).

January 2000 - December 2003: secretary of the Austrian Mathematical Society (ÖMG)

2005 – 2019: Head of the committee for doctoral studies (“Curriculakommission für Doktoratsstudien und Universitätslehrgänge”) of TU Graz.

2019 – 2022: ordinary member of the same committee

2007 – 2013: Member of the Senate of TU Graz (2013 – : substitute member).

2009 – 2022: Chairman of the Graz/Styria section of the ÖMG.

2010 – 2022: Speaker of the Austrian Science Fund Doctoral Programme (FWF Doktoratskolleg) “Discrete Mathematics”

2018 – : organiser of the “Studierendentreffen (students’ meetings) + Early Student Award” of the ÖMG.

### **3) Visiting professorships**

April 1986: Visiting professor at the Universities of Rome and Milan.

Spring 1987: Visits at several universities in the U.S. (Washington University - St. Louis, City University of New York) and Canada (Université de Montréal, Simon Fraser University).

Summer 1989: Visiting professor at the University of Sydney (Australia).

May/June 1991: Visiting professor at the University of Salzburg (Austria).

April–May 1992: Visits at several universities in the U.S. (Harvard Univ., CUNY, Washington Univ. - St. Louis, USC and UCLA).

May 1993: Visiting professor at Université Paris 7.

April/May 1995: Visiting professor at the University of Salzburg (Austria).

May 1996: Visiting professor at Université de Rennes-I.

April/May 1997: Visiting professor at the University of Vienna.

May 1998: Visiting professor at the Technical University of Graz.

Fall semester 1998/99: on leave from Milano, visiting professor at the Universities of Vienna and Linz.

August/September 2000: Visiting professor at Cornell University.

April/June 2002: Visiting professor at Institut H. Poincaré, Centre Emile Borel.

April 2004: Visiting professor at the University of Sydney.

April 2005: Visiting professor at the University of Rome-I.

August 2005: Professor of the probability course at the International Summer University in Perugia.

May/June 2006: Visiting professor at the University of Tours.

July/August 2007: Visiting professor at the Kyoto University and Tohoku University.

July/August 2010: Visiting professor at the University of Sydney.

January/February 2014: Visiting professor at Institut Poincaré, Paris.

August 2014: Professor of the course on stochastic processes at the International Summer University in Perugia.

March 2019: Visiting professor at Université de Tours.

May 2019: Research stay at University of Ottawa.

June 2019: Research stay at University of Reykjavik.

June 2022: Research stay at Institut Poincaré and Université de Tours.

#### **4) Organization of conferences**

Organization (together with V. A. Kaimanovich, M. A. Picardello and L. Saloff-Coste) of the INdAM conference “Random Walks and Discrete Potential Theory” (June 1997, Cortona, Italy).

Organization of the special semester “2001 - Random Walks” at the Schrödinger Institute in Vienna (together with V. A. Kaimanovich and K. Schmidt) and of the conference “2001 - Fractals in Graz” (June 2001, together with P. Grabner).

Member of the program committee of the congress of the Austrian Mathematical Society in collaboration with UMI and SIMAI, (Bozen/Bolzano, September 2003).

Organization of the conference “Geometric Group Theory, Random Walks, and Harmonic Analysis” (June 2004, Cortona, Italy).

Special session “Stochastic Analysis on Metric Spaces”, (organized together with L. Saloff-Coste and K.-Th. Sturm), Joint meeting of AMS, DMV and ÖMG (2005, Mainz, Germany).

RDSSES/ESI Educational Workshop on Discrete Probability at the Erwin Schrödinger Institute (organized with V.A. Kaimanovich and K. Schmidt; 2006, Vienna).

Workshop on “Boundaries”, June 29 - July 4, 2009, TU Graz (organized with W. Huss and E. Sava; Scientific committee: T. Nagnibeda, Ch. Pittet, H. Short, W. Woess)

Workshop on “Analytic enumeration methods in combinatorics, probability and number theory” May 27 - 28, 2010, TU Graz (organized with W. Huss and E. Sava). Funding by FWF, ÖMG

Spring school “Discrete probability, ergodic theory and combinatorics” April 4 - 15, 2011, TU Graz (Local & scientific committee: E. Sava, W. Woess). Funding by FWF, TU Graz, ESF, ÖMG

Focussed meeting: “The shape of branching random walk and related topics”, July 9 - 11, 2012, TU Graz (organized with E. Sava). Funding by ESF, FWF

“Leoben-Ljubljana Seminar in Graph Theory 2013” September 15 - 18, 2013, Bildungshaus Mariatrost, Graz (organized with W. Huss and N. Seifter). Funding by FWF, ÖMG, TU Graz, MU Leoben

“Austrian Stochastic Days 2016”, June 30 + July 1, 2016, TU Graz (organized with E. Sava).

“Leoben-Ljubljana Seminar in Graph Theory 2016”, September 25 - 28, 2016, Judenburg (organized with J. Cuno and I. Peterin).

“Groups, Probability, Dynamics” – A meeting on the occasion of the 50th birthday of Tullio Ceccherini-Silberstein. February 22 – 24, 2017, Rome (organized with D. D’Angeli, A. Donno, F. Scarabotti and F. Tolli). Funding by Dipartimento S.B.A.I. - Sapienza University of Rome.

“Geometric Analysis and Potential Theory – Discrete and Continuous” A meeting on the occasion of the 70th birthday of Massimo A. Picardello, February 17 – 19, 2020, Perugia (organized with F. DiBiase, F. Fidaleo and M. Pagliacci). Funding by University of Rome – Tor Vergata, University of Chieti – Pescara, Fondazione Cassa Risparmio Perugia.

## **5) Externally funded research projects**

### *A. Spectral Problems and Noncommutative Probability Theory*

FWF (Austrian Science Fund) Schrödinger Return Project R2Mat, 1.10.2002 – 15.7.2006

Project coordinator: Wolfgang Woess;

Fellow: Dr. Franz Lehner (now associate professor at the same institute)

### *B. Asymptotic Properties of Random Walks on Graphs*

FWF (Austrian Science Fund) Projekt Nr. P15577-N05, 1.10.2002 – 15.7.2006

Project coordinator: Wolfgang Woess;

Project personnel: Dr. Sara Brofferio, Dr. Ronald Ortner (now at Montanuniversität Leoben), Dr. Markus Neuhauser (now at Kutaisi Univ., Georgia), Dr. Florian Sobieczky (now Univ. Denver), Dr. Elmar Teufel (now at Universität Tübingen), Dr. Adam Timar (now at University of Iceland; never mentions Graz stay in his CV)

### *C. Internal Diffusion Limited Aggregation on Non-Homogeneous Structures*

EU Marie Curie PostDoc fellowship HPMF-CT-2002-02137, 1.3.2003 – 31.8.2004

Project coordinator: Wolfgang Woess

Fellow: Dr. Sara Brofferio (now prof. Univ. Paris - Est)

### *D. Random Walks, Random Configurations, and Horocyclic Products*

FWF (Austrian Science Fund) Projekt Nr. P18703-N18, 1.10.2002 – 15.7.2006

Project coordinator: Wolfgang Woess

Project personnel: Dipl.-Ing. Wilfried Huss (PhD student, then PostDoc at Univ. Siegen and TU Vienna, now Quantum Engineer at AQT, Innsbruck), Dr. James Parkinson (now senior lecturer at Univ. Sydney), Dr. Sebastian Müller (assistant prof. at Univ. Aix-Marseille), Dr. Agelos Georgakopoulos (now prof. at Univ. Warwick), Konrad Kolesko (PhD student from Wrocław, now PostDoc at Univ. Wrocław), Matthias Hamann (PhD student from Hamburg, now assistant prof. at Univ. Giessen)

*E. Doctoral Program “Discrete Mathematics”*

FWF (Austrian Science Fund) Doktoratskolleg Nr. W1230, 1.5.2010 –

Speaker: Wolfgang Woess

Large program involving 10 faculty members from TU and KFU Graz and MU Leoben, with 10 internal and 10 associated PhD students and one PostDoc (coordinator).

*F. Random Geometry of Large Interacting Systems and Statistical Physics (RGLIS)*

European Science Foundation (ESF) program involving 11 countries, 1.6.2010 – 30.6.2014

Austrian member of steering committee: Wolfgang Woess

*G. Hyperbolic structures in stochastics, graph theory and topology*

FWF (Austrian Science Fund) Projekt Nr. P24028-N18, 15.5.2012 – 31.7.2017

Project coordinator: Wolfgang Woess

Project personnel: Dr. Agelos Georgakopoulos (now prof. at Univ. Warwick), Dr. Daniele d’Angeli (now associate prof. at Univ. Cusano, Rome), Dr. Wilfried Huss (now quantum engineer at AQT Innsbruck), Mag. Judith Kloas (PhD student, then at insurance company in Zürich, now on extended North America trip).

*H. Walks and boundaries – a wide range*

FWF (Austrian Science Fund) Projekt Nr. P31889-N35, 1.4.2019 – 30.9.2023

Project coordinator: Wolfgang Woess

Project personnel: Dr. Dr. Stjepan Sebek (now assistant prof. at Univ. Zagreb), Dr. Daniele d’Angeli (now associate prof. at Univ. Cusano, Rome), Dipl.-Ing. Christian Lindorfer (PhD student, now PostDoc and Coordinator of the DK “Discrete Mathematics”), Dr. Florian Thomas (now tenured lecturer at Univ. Auckland), Dr. Hanna Oppelmayer (now university assistant at Univ. Innsbruck).

## **6) PhD students**

- Maura Salvatori (Univ. Milano, 1993; now associate prof. at Univ. Milano)
- Daniela Bertacchi (Univ. Milano, 2000; now associate prof. at Univ. Milano-Bicocca)
- Fabio Zucca (Univ. Milano, 2000; now associate prof. at Politecnico di Milano)
- Bernhard Krön (TU Graz, 2001; Woess was advisor of master thesis and 2nd advisor of PhD thesis; now prof. at KPH Wien/Krems)

- Sara Brofferio (Univ. Paris 6, 2002; Woess was advisor of master thesis and member of PhD committee; now prof. at Univ. Paris-Est)
- Ali Ünlü (TU Graz, 2004; now full prof. in Empirical Educational Research at TU München)
- Ecaterina Sava (TU Graz, 2010; now PostDoc at TU Graz)
- Wilfried Huss (TU Graz, 2010; now tenure track assistant prof. at Univ. Innsbruck)
- Christoph Temmel (TU Graz, 2012; now at Illwerke electric power company, Vorarlberg)
- Elisabetta Candellero (TU Graz, 2012; now associat prof. at Univ. Rome 3)
- Tetiana Boiko (TU Graz, 2014)
- Johannes Cuno (TU Graz, 2015; now prof. at Univ. of Education Ludwigsburg)
- Judith Kloas (TU Graz, 2018; then at insurance company in Zurich, now on extended North America trip)
- Gundelinde Wiegel (TU Graz, 2020; now at private company in Graz)
- Christian Lindorfer (TU Graz, 2021; now PostDoc and coordinator of the DK “Discrete Mathematics”)
- Thomas Hirschler (TU Graz, 2022; assistant prof. at TU Graz)
- Stefan Hammer, Panagiotis Spanos (TU Graz, ongoing)

## 7) Refereeing

Refereeing of

- NSF research grant applications (1989,1990, 1992),
- Cofin grant applications (Italy, comparable with NSF grants, 2001),
- EU Marie Curie fellowship application,
- Israel Science Foundation research proposal (2005),
- DFG project applications (Germany, 2006, 2011, 2012, 2015, 2016)
- OeAD exchange program (Austria, 2010, 2013).
- OTKA - Hungarian Scientific Research Fund (Hungary, 2013).
- Agence Nationale de la Recherche (France, 2013).
- National Science Center (Poland, 2015).
- German-Israel Foundation for Scientific Research and Deevaluation (2015).
- Istituto Nazionale di Alta Matematica (Italy, 2016).

Evaluation of the Mathematical Institute of the Slovak Academy of Sciences (2007)

External committees:

- Committee for prof. position, Univ. Neuchatel, Switzerland.
- PhD committees at Univ. Brest, Univ. Toulouse, Univ. Paris 6,
- Scuola Normale Superiore Pisa, Univ. Rome-I, TU Chemnitz,
- Univ. Wroclaw, Univ. Tours.
- Habilitation referee for Univ. Hamburg, Univ. Vannes, TU Aachen,
- Univ. Paris-Orsay, Univ. Tours.

Throughout the years: Referee of papers presented for publication in:  
Abhandlungen des Mathematischen Seminars der Universität Hamburg,  
Acta Sci. Math Szeged;  
Advances in Applied Mathematics;  
Advances in Mathematics;  
Advances in Pure and Applied Mathematics;  
American Math. Monthly;  
Annales Blaise Pascal;  
Annales de l'Ecole Normale Supérieure;  
Annales de l'Institut Fourier (Grenoble);  
Annales de l'Institut Poincaré-B;  
Annali di Matematica Pura ed Applicata;  
Annals of Mathematics;  
Annals of Applied Probability;  
Annals of Probability;  
Archiv der Mathematik;  
Bollettino dell'Unione Matematica Italiana;  
Bulletin of the London Mathematical Society;  
Bulletin de Sciences Mathématiques;  
Circuits, Systems, and Signal Processing;  
Combinatorics, Probability, and Computing;  
Combinatorica;  
Commentarii Mathematici Helvetici;  
Contemporary Mathematics;  
Discrete and Computational Geometry;  
Discrete Mathematics;  
Discussiones Mathematicae;  
Electronic Communications in Probability;  
Electronic Journal of Probability;  
Electronic Journal of Combinatorics;  
Entropy;  
ESAIM: Probability and Statistics;  
l'Enseignement Mathématique;  
Glasgow Mathematical Journal;  
Groups, Geometry, and Dynamics;  
ICALP;  
Illinois J. Math.;  
International Journal of Mathematics and Mathematical Sciences;  
International Mathematical Research Notes;

Inventiones Mathematicae;  
Israel Journal of Mathematics;  
Journal de Mathématiques Pures et Appliquées;  
Journal of Algebraic Combinatorics;  
Journal of the American Mathematical Society;  
Journal of Combinatorial Theory-B;  
Journal of the European Mathematical Society;  
Journal of Functional Analysis;  
Journal of Graph Theory;  
Journal of Group Theory;  
Journal of Lie Theory;  
Journal of Mathematical Analysis and Applications;  
Journal of Statistical Physics;  
Journal of the European Math. Society;  
Journal of Theoretical Probability;  
Linear and Multilinear Algebra;  
Markov Processes and Related Fields;  
Mathematics and Computer Science;  
Mathematische Annalen;  
Mathematische Nachrichten;  
Mathematische Zeitschrift;  
Monatshefte für Mathematik;  
Nonlinearity;  
Pacific Journal of Mathematics;  
Potential Analysis;  
Probability Theory and Related Fields;  
Proceedings of the London Math. Society;  
Proceedings of the American Math. Society;  
Proceedings “Probabilistic Approach to Geometry”;  
Proceedings “Limits of Graphs in Group Theory and Computer Science”;  
Random Structures and Algorithms;  
STACS;  
Stochastic Processes and their Applications;  
Transactions of the American Mathematical Society;  
  
Reviewer for Mathematical Reviews and Internationale Mathematische Nachrichten until 2018.