

# CURRICULUM VITAE

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**Academic unit:** Institut für Angewandte Analysis, Universität Ulm,  
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**Home address:** Prader Straße 8a, D-89233 Neu-Ulm, Germany  
**Born:** Nov. 9, 1946 in Gedern, Germany  
**Education:** Universität Marburg (Diplom 1971),  
Universität Ulm (Dr. rer. nat. '72, Habilitation '79)

## Membership in professional and learned societies:

Deutsche Mathematiker-Vereinigung (until end of 2008)

## Professional career:

**1971 – 1978** Wissenschaftlicher Assistent, Universität Ulm  
**1978 (spring)** Visiting Associate Professor,  
University of Wisconsin at Milwaukee  
**1979 –** Wissenschaftlicher Angestellter, Universität Ulm  
**1986 (spring)** Visiting Professor,  
University of Southern California at Los Angeles  
**WS 1986/87** Visiting Professor, Universität Trier  
**1990 (spring)** Visiting Professor,  
University of Minnesota at Minneapolis  
**1996 (spring)** Visiting Professor,  
San Diego State University, San Diego  
**1997 and 1998** Professeur Invité, Université de Grenoble, two months  
**1998 (spring)** Professeur Invité, Université de Lille, one month  
**1999 (spring)** Professeur Invité, Université de Strasbourg, one month  
**2000 (spring)** Visiting Professor, University of Valladolid, two weeks  
**2001 (spring)** Professeur Invité, Université de Nice, one month  
**2003 (spring)** Professeur Invité, Université d' Angers, one month  
**2003 (fall)** Guest researcher at *Research Institute of Mathematical Sciences* in Kyoto, Japan, three months  
**2006 (spring)** Professeur Invité, Université de Lille, one month  
**2008 (fall)** Guest researcher at Hiroshima University, Japan, sponsored by JSPS, six weeks

## Current research interests:

Analysis; in particular ordinary differential and difference equations, summability of formal power series solutions, analytic theory of partial differential equations.

## Invited talks, shorter visits, awards, etc.:

March '76	University of Western Ontario, Canada
Sept. '80	University of Wisconsin/Milwaukee
Feb. '81	Oberwolfach, <i>Funktionentheorie</i>
June '83	Oberwolfach, <i>Special functions and differential equations in the complex domain</i>
Sept. '83	University of Wisconsin at Milwaukee
Jan. '85	Anaheim, CA, Special Session <i>Differential Equations</i> , annual meeting of AMS
Oct. '85	Strasbourg, Colloque Franco-Japonais <i>La théorie des équations différentielles dans la champ complexe</i>
Dec. '85	Received <i>Merckle-Forschungspreis</i> , an award for outstanding research, Universität Ulm
Feb. '86	apl. Professor, Universität Ulm
March '87	Oberwolfach, <i>Gewöhnliche Differentialgleichungen</i>
Aug. '87	Kyoto (Japan), <i>International Symposium on Complex Analytic Theory of Differential Equations</i> , supported by Taniguchi Foundation
Apr. '89	Oberwolfach, <i>Ordinary differential equations, and special functions</i>
June '91	Bar Ilan University, Israel, <i>Workshop in Mathematics</i>
Jan. '93	Hong Kong University of Science and Technology, <i>International Conference on Complex Analysis and Applications</i>
Feb. '94	Oberwolfach, <i>Funktionentheorie</i>
March '94	San Diego State University
Sept. '94	Joensuu (Finland), Workshop on <i>Value Distribution Theory and Complex Differential Equations</i>
1995 – 2012	Managing Editor of <i>Journal of Dynamical and Control Systems</i>
June '95	University of Groningen, Netherlands, Workshop <i>Stokes Phenomena and Applications</i>
Sept. '98	Nagoya University (Japan)
Jan. '99	CIRM, Marseille, <i>Monodromie et équations différentielles en théorie des singularités</i> , workshop organized by A. Bolibruh and C. Sabbah, invited lecturer
Aug. '99	Moscow, <i>International Conference on Differential and Functional Equations</i> , Member of Program Committee and Main Speaker
Jan. '00	San Diego, Symposium <i>Asymptotics and Applied Analysis</i> , Invited Speaker
April '00	Tordesillas (Spain) <i>Seminario Iberoamericano de Matemáticos</i>
May '00	Montreal, CRM Workshop on <i>Isomonodromy Deformations and Applications in Physics</i> , Principal Speaker (declined for private reasons)

- Feb. '00** Strasbourg, France, *Conference on Differential Equations in the Complex Domain*, member of the Scientific Committee
- June '01** Melfi, Italy, workshop *Advanced Special Functions and Related Topics in Differential Equations*, member of the Scientific Committee
- Aug. '01** Stefan Banach Int. Math. Center, Poland, Workshop *Nonlinear Partial Differential Equation*, invited speaker
- June '02** ICMS Edinburgh, Workshop *Analyzable Functions and Appl.*, invited speaker
- July '02** Suzdal, International Conference *Differential Equations and Dynamical Systems*, member of the Program Committee
- Aug. '02** Moscow, International Conference on *Differential and Functional Diff. Equations*, Satellite conference of the ICM-2002 in Beijing, invited lecturer and member of the Program Committee
- Nov. '02** CIRM, Marseille, *Résurgence, calcul étranger resommabilité et transséries*, workshop organized by F. Fauvet and D. Sauzin, invited lecturer
- Nov. '02** Received *Lehrbonus*, an award for excellent teaching
- Sep. '03** Chiba, Japan, Annual Meeting of the *Mathematical Society of Japan*, special lecture
- Nov. '04** Strasbourg, France, *Singularités des équations différentielles, systèmes intégrables et groupes quantiques - Colloque de la mémoire d'Andreï Bolibroukh*, invited lecturer
- Aug. '05** Moscow, Fourth International Conference on *Differential and Functional Differential Equations*, invited lecturer (declined for private reasons) and member of the Program Committee
- Oct. '06** Kanazawa, Japan, *Workshop on the occasion of the 60th birthday of Masatake Miyake*, invited lecturer
- Jan. '08** CIRM, Marseille, *Equations aux dérivées partielles holomorphes, petits diviseurs et sommabilité*, workshop organized by L. Stolovitch and Y. Takei, invited lecturer
- March '08** Six lectures at five universities in the US: Columbus, Indianapolis, Rolla, San Diego, Tacoma
- June '08** Tokyo, Japan, International Conference *From Painlevé to Okamoto*, invited lecturer
- March '10** Warsaw/Krakow, Poland, guest of IMPAN with lectures in Banach center at Warsaw (twice) and Krakow
- March '12** Limoges, France, *International Colloquium on analytic and algebraic approaches to integrability*, invited speaker
- Sep '12** Banach Institute, Warsaw, *Workshop on the differential and difference equations in the complex domain*, invited speaker
- Jan '13** Baranquilla, Colombia, *CIMPA school "Differential Galois theory and multisummability"*, member of the Scientific Committee
- Aug '13** Będlewo Research and Conference Center, Poland, *Banach Center Conference on Formal and Analytic Solutions of Differential, Difference and Discrete Equations*, member of the Scientific Committee and invited speaker

### Organization of workshops:

- June '86** *Summability and ordinary diff. equations*, Schloss Reisensburg; jointly with W. Kratz. Supported by Faculty of Mathematics and Economics, and Universitätsgesellschaft Ulm.

- July '97**      *Summability theory and applications*, University of Ulm; jointly with W. Kratz and U. Stadtmüller.  
Supported by Faculty of Mathematics and Economics, Universitätsgesellschaft Ulm, and industrial companies.
- June '98**      *Asymptotic theory and multisummability of power series in several variables*, Fabri Institut Blaubeuren.  
Supported by Stiftung Volkswagenwerk and Faculty of Mathematics and Economics.
- July '00**      *Differential and difference equations in the complex domain*, University of Ulm.  
Supported by Faculty of Mathematics and Economics.
- June '05**      *Ordinary Differential, Difference, and Dynamic Equations*, special session at the *Joint International Meeting of AMS, DMV, and ÖMG* in Mainz, Germany; jointly with M. Bohner and D. A. Lutz.
- March '07**     *Formal solutions of ordinary and partial differential equations*, Minisymposium at the *annual meeting of DMV and GDM*.
- Aug '08**      *Formal and analytic solutions of differential equations*, International Conference, Będlewo Research and Conference Center, Poland; jointly with G. Łysik and S. Michalik.
- Aug '11**      *Formal and analytic solutions of differential and difference equations*, International Conference, Będlewo Research and Conference Center, Poland; jointly with G. Filipuk, G. Łysik, and S. Michalik.

### Courses taught:

Standard and advanced courses in Analysis, Topology, Functional Analysis; basic courses in Probability Theory and Numerical Mathematics.

### Theses directed:

Several theses required for the German Diplom and Staatsexamen in Mathematics.

### Doctoral Theses:

**Volker Reuter:** Verbindungsprobleme bei meromorphen Differentialgleichungen vom Poincaré-Rang  $r \geq 2$ .

**Andreas Beck:** Matrixsummationsverfahren und Multisummierbarkeit.

**Claudia Christina Röscheisen:** On Hypergeometric Systems of Differential Equations.

### Participation in foreign theses defenses:

**Fabienne Naegele:** Autour de quelques équations fonctionnelles analytiques, *Université de Grenoble* 1995, président de jury.

**Bernard Faber:** Summability theory for analytic difference and differential-difference equations, *Rijksuniversiteit Groningen* 1998, member of the jury.

**Juliette Vandamme:** Probleme de Riemann-Hilbert pour une representation de monodromie triangulaire superieure, *Université de Nice* 1998, rapporteur.

**Eckhard Pflügel:** Résolution symbolique des systèmes différentiels linéaires, *Université de Grenoble* 1998, rapporteur.

**Eduardo Corel:** Exposants, réseaux de Levelt et relations de Fuchs pour les systèmes différentiels réguliers, *Université de Strasbourg* 1999, rapporteur.

**Alain Roseau:** Equations doublement confluentes et biconfluentes de Heun, *Université de Littoral, Calais* 1999, rapporteur.

**Robert Kuik:** Transseries in difference and differential equations, *Rijksuniversiteit Groningen* 2003, member of the jury.

**Alberto Lastra Sedano:** Quasi-analyticity and extension operators in Carleman ultraholomorphic classes, *Universidad de Valladolid* 2009, referee.