

Summary of some Facts

<http://www.mathematik.uni-wuerzburg.de/~vaeth/cv.html>

- **Computer Activities**

- Programming languages mainly **C++**, **Perl**, **Shell**, but I have also coded in Python, C, Javascript, Java, BASIC, Pascal, 6502 and 68000 Assembler, Emacs Lisp, \TeX , ...
- Good knowledge of **Linux** (many contributions to Gentoo Linux) and Unix
- Main developer and maintainer of eix (a database for the **Gentoo Linux** package management system which contains a special-purpose language and various parsers)
- Numerous tools/scripts for Gentoo Linux, e.g. maintainer of the mv overlay.
- Some projects (see github for more):
 - * a task scheduler (communicates over **Unix sockets**),
 - * a chess problem solver (with experimental **multithreading**)
 - * a very flexible mount administration tools for squashfs+overlays/aufs,
 - * a solver for the NP complete knapsack problem, including multiple knapsacks.
 - * Browser (Firefox) Addon for removing duplicate bookmarks.
 - * Browser (Firefox) Addon for calculation with a Pratt type parser.
 - * Machine learning experiments.
- Older projects: Music program for Atari ST (digital sound output: self-modifying processor cycle counting code), chess problem solver for C64 (6502 Assembler), Quintris (tetris variant), C++ libraries and language for arbitrary precision math, *fast disk copy* C64 disc \rightsquigarrow Atari ST (C64 as interface), data compressors, Emacs and \TeX packages, ...

- **Mathematical Research Interests:** Linear and Nonlinear Analysis including (but not restricted to)

- topological and geometric methods
- partial and ordinary differential equations, for instance reaction diffusion equations
- linear and nonlinear spectral theory
- integral equations, in particular Volterra equations; functional differential equations
- positive operators and vector lattices, measure and integration theory
- connections to logic and set theory, nonstandard analysis

- **6 Monographs and text books**

- **about 90 refereed papers** in international journals

- **Ph.D** (Promotion) at the University of Würzburg

- **Habilitation** at the University of Würzburg

- **Prices and fellowships:** price for Diploma Thesis (DMV), Heisenberg fellowship (DFG), scholarship for CalTech, USA (DAAD)

- **Temporary professor positions:** Univ. of Gießen (2 years), Univ. of Rostock (2 semesters)

- **Research positions** at the Academy of Sciences of the Czech Republic in Prague for 2 years

- **Principal investigator** (project leader) of a DFG project at the Free Univ. of Berlin

- **Lecturer** at the Scuola Matematica Interuniversitaria 2015 (Perugia)

- Numerous Conferences and research visits

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Curriculum Vitae

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Professional Employments



Martin Andreas V ath

- Since 11/18: Software Engineer at Google (Z urich).
- 10/17–03/18: Temporary W3 professorship at the Univ. of Rostock.
- 04/16–08/17: Assistant researcher in the SFB 647 of the DFG in the working group of dynamical systems at the FU Berlin.
- 04/15–10/18: Researcher (Czech Academy of Sciences, Prague)
- 10/14–03/15: Temporary professorship at the Univ. of Rostock.
- 08/14–09/14: Assistant researcher in the SFB 647 of the DFG in the working group of dynamical systems at the FU Berlin.
- 04/14–07/14: Assistant of P. Tak ac, Univ. Rostock; research on quasilinear differential equations and financial mathematics.
- 08/13–03/14: Assistant researcher in the SFB 647 of the DFG in the working group of dynamical systems at the FU Berlin.
- 07/11–07/13: Principal investigator (and project leader) of my own DFG project at the FU Berlin.
- 10/10–02/11: Heisenberg fellow (DFG) at the FU Berlin.
- 10/09–09/10: Guest researcher at the Czech Academy of Sciences in Prague
- 10/07–09/09: Temporary professorship at the Univ. of Gießen.
- 03/03–09/07: Heisenberg fellow (DFG) at the Free Univ. of Berlin.
- 11/01–02/03: Research assistant of W. J. Ricker at the Catholic University of Eichst att-Ingolstadt.
- 08/99–07/01: Research assistant for a DFG project at the University of W urzburg
- Various teaching commissions (Lehrauftr age)
- Various international scholarships and invitations (see separate sheet); among them a DAAD-scholarship at the California Institute of Technology (USA).

during and after Ph.D. (03/94–08/97):

Research assistant for a DFG project

during study (11/90–12/91):

Student assistant at the institute of computer science and at the institute of physics.

Study at University Mathematics, with minor subject computer science at the Julius-Maximilians University W urzburg from November 1988 until October 1993.

Habilitation: July 26, 1999

Promotion (Ph.D.): May 24, 1996

Diplom (Master): October 4, 1993

Vordiplom (Bachelor): September 18, 1990

School Exam 1988 Abitur (St adt. Sch onborn-Gymnasium W urzburg).

Born March 23, 1967 in W urzburg

Z urich, March 11, 2019
Martin V ath