Franz-Viktor Kuhlmann: Curriculum Vitae

- **Born** on February 12, 1954, in Sande, Germany.
- **Citizenship:** German.
- **Family status:** I am married to Katarzyna Kuhlmann and have two daughters (Anna Noura, born 5. 6. 1987, and Naila, born 1. 7. 1990) and one stepdaughter (Martyna, born 15. 4. 1990).
- **Current position:** Ordinary Professor at the University of Szczecin, Poland.
- **Areas of research:** Algebra and Model Theory, Valuation Theory, Ordered Structures, Local Uniformization and Model Theory of Valued Fields in Positive Characteristic, Fixed Point Theory.
- I have **studied** mathematics, mathematical logic, physics, astronomy, philosophy and history of sciences at the universities of Munich, Münster, Konstanz and Heidelberg.
- I am a **member** of the American Mathematical Society, Polish Mathematical Society, German Mathematical Society, European Mathematical Society, Association of Symbolic Logic and the DVMLG (German logicians).
- I have created and am maintaining the **Valuation Theory Home Page** (http://math.usask.ca/fvk/Valth.html).
- My current **home page** is located at `http://math.usask.ca/fvk/index.html` .

Degrees.

- Feb. 2015: Polish Professor title (Prof. dr hab.).
- Dec. 1995: Habilitation (Dr. habil.) and Venia Legendi, University of Heidelberg.
- Feb. 1990: Ph.D. (Dr. rer. nat., summa cum laude), U. of Heidelberg. Advisor: Peter Roquette.
- Nov. 1983: Teacher's Diploma (Staatsexamen, with distinction), University of Münster.
- Jan. 1982: Master's Diploma (with distinction), U. of Münster. Advisor: Falko Lorenz.
- June 1979: Philosophicum (exam in philosophy and pedagogics, with distinction), U. of Münster.
- May 1972: Abitur (with distinction), Humboldtschule Wilhelmshaven.

Positions and scholarships.

- Since October 2018: Ordinary Professor at the University of Szczecin, Poland.
- October 2017 to September 2018: Extraordinary Professor at the University of Szczecin, Poland.
- October 2016 to July 2017: Visiting Professor at the University of Szczecin.
- October 2015 to September 2017: Professor at the University of Silesia at Katowice, Poland.
- Summer semesters of 2010, 2013 and 2015: Visiting professor at the University of Silesia.
- Since 2004: Professor (tenured) at the University of Saskatchewan, Saskatoon.
- Since 2001: Associate professor (tenured) at the University of Saskatchewan, Saskatoon.
- 2010 and 2013, summer semesters: Guest professor at the University of Silesia at Katowice.
- 1999–2001: Associate professor (tenure track) at the University of Saskatchewan, Saskatoon.
- 1998/99: Assistant professor term position at the University of Saskatchewan, Saskatoon.
- 1997/98: Postdoctoral fellow at the University of Saskatchewan, Saskatoon.
- 1996/97: Visiting member of the Fields Institute, Toronto.
- Jan. 1995 – Mar. 1995: Visiting professor at Chandigarh University, India.
- Apr. 1990 – June 1996: Assistant professor at Heidelberg University.
- Apr. 1985 – Mar. 1990: Associate researcher at Heidelberg University.
- 1983 and 1984: Doctoral scholarship of "Studienstiftung des Deutschen Volkes".
- 1975 – 1980: Scholarship of "Studienstiftung des Deutschen Volkes".

Editorial work.
- Member of the board of editors of the Journal of Algebra
- Member of the board of editors of the Annales Mathematicae Silesianae
- Co-editor of *Valuation Theory and its Applications*, Volumes I and II, Proceedings of the Valuation Theory Conference, Saskatoon 1999, Fields Institute Communications Series **32** (2002) and **32** (2003), Publications of the Amer. Math. Soc.
- Co-editor of *Valuation Theory in Interaction*, Proceedings of the Second International Valuation Theory Conference, Segovia / ElEscorial 2011, EMS Series of Congress Reports 2014
- Co-editor of the Proceedings of ALANT 3 - Joint Conferences on Algebra, Logic and Number Theory, Bedlewo (Poland) 2014, Banach Center Publications **108** (2016)
- Co-editor of the Proceedings of ALANT 5 - Joint Conferences on Algebra, Logic and Number Theory, Bedlewo (Poland) 2018, to appear in Banach Center Publications

Research grants.
- Opus 13 grant 2017/25/B/ST1/01815, 301 620,00 zł, 2018-2020;
- PIMS postdoctoral fellow scholarship for Dr. Koushik Pal, 2013-2015;
- Canadian NSERC Grant, CAD 12,000 per year, 2013-2015;
- Canadian NSERC Grant, CAD 16,000 per year, 2007-2012;
- Canadian NSERC Grant, CAD 14,000 per year, 2003-2007.
- Canadian NSERC Grant, CAD 10,500 per year, 1999-2003.
- Teaching reduction grant, College of Arts and Science, Univ. of Saskatchewan, 2001- 2002.
- President's NSERC Grant, University of Saskatchewan, CAD 2,100, 1999-2000;
- President's NSERC Grant, University of Saskatchewan, CAD 2,900, 1998-1999.

Teaching experience.
I have taught the following courses and seminars at an undergraduate level:
Calculus I&II, calculus for engineers I&II, mathematics for biologists, linear algebra, abstract algebra, elementary number theory, euclidean geometry, cryptography, honours algebra, honours seminar, finite fields and coding theory (seminar).

At the graduate level, I have presented the following courses:
Graduate algebra I & II, algebraic number theory, topology, model theoretic algebra, p-adic numbers and p-adic algebra, valuation theory, valued function fields, fields and their closures, formally real fields, real algebra, differential algebra, algebra and model theory of valued fields, cryptography, profinite groups.

For a number of years in the 1980s and 1990s, I have organized a seminar on algebra and model theory, together with P. Roquette and A. Prestel. Together with M. Marshall, I am organizing the Algebra and Logic Seminar at Saskatoon (since 1997, see http://math.usask.ca/fvk/algsem.htm).

Supervision of Students and Postdoctoral Fellows.

A. Current Supervision of Students at the University of Szczecin.

• Since October 1 of 2017 I am supervising Ph.D. student Hanna Ćmiel. She is receiving a stipend from my Opus 13 grant.

• Since October 1 of 2018 I am supervising Ph.D. student Alessandro Linzi. He is receiving a stipend from a special program for international PhD studies, supported by the EU.

• Further, I am supervising two MSc students.

B. Past Supervision.

Supervision of Postdoctoral fellows at the University of Saskatchewan:

I have supervised the following postdoctoral fellows:

• Dr. Koushik Pal, supported by a scholarship from the Pacfic Institute for the Mathematical Sciences (PIMS) for the academic years of 2013/14 and 2014/15
• Dr. Mohammad Moghaddam (2011/12, fifteen months)
• Dr. Asim Naseem (2011/12, eight months)
• Dr. Samar ElHitti (2012, four months)
• Dr. Antongiulio Fornasiero (2005, four months)
• Dr. Roland Auer (2002/3, one year)

Supervision of Graduate students:

I have supervised two Ph.D. students who have completed their degrees:

• Josnei Novacoski, University of Saskatchewan (thesis defended September 2013). Under my supervision, he wrote one single-authored paper and one joint paper with M. Spivakovsky, which both have appeared in *Valuation Theory in Interaction*, Proceedings of the Second International Valuation Theory Conference, Segovia/ElEscorial 2011, EMS Series of Congress Reports, September 2014. We published the joint paper *Henselian elements*, J. Alg. 418 (2014), 44–65. Josnei is now a professor in Brazil.

• Anna Blaszczok, University of Silesia (thesis defended August 2014). Under my supervision, she wrote one single-authored paper, which has appeared in the above cited Proceedings volume *Valuation Theory in Interaction*. We have published several joint papers and are continuing our joint research. Anna is now an adjunkt at the University of Silesia, working towards her habilitation.

I have supervised two M.Sc. students:

• M.Sc. student Fatma Sonaallah, together with J.C. Wang (University of Saskatchewan) and Katarzyna Kuhlmann (thesis defended September 2016). The results have been published in:
Kuhlmann, F.-V. – Kuhlmann, K. – Sonaallah, F.: *Coincidence Point Theorems for Ball Spaces and Their Applications*, to appear in: Ordered Algebraic Structures and Related Topics, CIRM, Luminy, France, October 12-16 2015, Contemporary Mathematics **697** (2017), 211-226.

• M.Sc. student Izabela Vlahu (thesis defended September 2012). The results have been published in:
Kuhlmann, F.-V. – Vlahu, I.: *The relative approximation degree in valued function fields*, Mathematische Zeitschrift **276** (2014), 203–235.

I assisted in the supervision of:

• Ph.D. student Mehdi Zekavat, (thesis defended April 2000). This resulted in the joint paper [15].

I have served as external referee for the Ph.D. theses of H. Perdry (Besancon, France) and K. Aghigh (Chandigarh, India). I have also given extensive input to their research and preparation of their theses.

During my sabbatical stay in Paris in 2003/4, I supervised Marc Autord, DEA student at the University of Versailles. I have refereed his DEA thesis and was member of the jury of his oral examination.

Internships:

During the summer semester of 2013, I supervised, while holding a visiting professor position at the University of Silesia:
• the Ph.D. students Jan Dobrowolski and Grzegorz Jagiella from the University of Wrocław for their "secondment" at the University of Silesia,
• the M.Sc. student Lauriane Huguet (University of Rennes, France) for an internship of seven weeks.

Undergraduate students:

I supervised summer student Allison Marles (2001) and NSERC Summer Award student Kelly Skoye (2002) in the area of cryptography and coding theory.

Working group at summer school:

Together with Katarzyna Kuhlmann, I organized and led a working group on Fixed Point Theory for young mathematics students at a summer school of the Deutsche Studienstiftung, August 6-18, 2017. A joint paper with one of the participants, M. Paulsen, has been published in 2018.

Joint papers that resulted from the supervisions:

Apart from the already mentioned articles, published papers have been written with the following coauthors: J. Dobrowolski, A. Fornasiero, A. Naseem, K. Pal, M. Zekavat.

Student Exchange Program and International Activities.

Together with Prof. K. Keimel I initiated the Student Exchange Program between the TU Darmstadt (Germany) and the University of Saskatchewan. Each year from 2002 to 2015 up to three mathematics and three physics students from Darmstadt visited the University of Saskatchewan for a whole academic year. I was the contact person for the German exchange students.

In 2002/3 I was a member of the University Committee for International Activities of the University of Saskatchewan and made extensive contributions to the University of Saskatchewan's "Foundational Document for International Activities".

I have assisted in the setup of an Erasmus student exchange between the TU Darmstadt and the University of Szczecin (Poland). I have assisted in setting up a collaboration with the Berlin Mathematical School. Presently I am initiating collaborations between the mathematics department at Szczecin and those at the universities of Münster and Dresden in Germany, in the framework of the above mentioned program for international PhD studies.

Organization of Conferences, Workshops and Summer Schools.

• Together with Marián Fabian, Jakub Gismatullin, Krzysztof Krupinski, Beata Kubiś, Wieslaw Kubiś and Jan Trlifaj I am presently organising the Twentysecond Colloquiumfest at the Institute of Mathematics of the Czech Academy of Sciences, Prague, December 6-9, 2019.

• Together with Josnei Novacoski, I organized the Twentyfirst Colloquiumfest in honour of the 60th birthday of Steven Dale Cutkosky at the Federal University of São Carlos, Brazil, July 27-28, 2019, see `https://math.usask.ca/fvk/CF21bis.htm`.

• Together with Ron Brown and Steven Dale Cutkosky, I organized a special session on "Valuations on algebraic function fields and their subrings" at the AMS Spring Central and Western Joint Sectional Meeting, University of Hawaii at Manoa, USA, March 22-24, 2019

• Together with Katarzyna Kuhlmann, I organized a graduate student's workshop on algebra, logic and analysis, May 31 to June 3, 2019, at the University of Szczecin; see `https://math.usask.ca/fvk/StudWorkshop2019.htm`.

• I was a member of the Scientific Committee of ALANT 5 - Joint Conferences on Algebra, Logic and Number Theory: the 21st Colloquiumfest and the 12th Czech, Polish and Slovak Conference on Number Theory, June 24–29, 2018, Bedlewo, Poland.

• Together with Katarzyna Kuhlmann, I organized the Workshop on "Valuations on Rational Function Fields", May 19-22, 2017, at the University of Szczecin; see `https://math.usask.ca/fvk/WS2018.htm`.

• Together with Katarzyna Kuhlmann, I organized and led a working group on Fixed Point Theory for young mathematics students at a summer school of the Deutsche Studienstiftung, August 6-18, 2017.

• Together with Katarzyna Kuhlmann, I organized the Twentieth Colloquiumfest, May 19-22, 2017, at the University of Szczecin; see `https://math.usask.ca/fvk/CF20.htm`.

• Together with M. Ghasemi, K. Kuhlmann, S. Kuhlmann and V. Vinnikov, I organized the Nineteenth Colloquiumfest in honour of Murray Marshall, August 30/31, 2016, University of Saskatchewan, Canada.

• I was a member of the Scientific Committee of ALANT 4 - Joint Conferences on Algebra, Logic and Number Theory: the Eighteenth Colloquiumfest and the 11th Czech, Polish and Slovak Conference on Number Theory, June 13–17, 2016, Telc, Czechia.

- Together with S. Anscombe, I organized the Seventeenth Colloquiumfest, University of Central Lancashire (UK), May 6 and 7, 2016.

- Together with H. Schoutens and S. ElHitti, I organized a special session on "Advances in Valuation Theory" at the AMS Sectional Meeting at Rutgers University in New Brunswick (USA) Nov. 2015.

- Together with F. Pop, I held a working group at the Studienstiftung des Deutschen Volkes summer school at Greifswald (Germany), Aug./Sept. 2015.

- Together with Z. Chatzidakis, J. Koenigsmann and F. Pop, I organized a conference on Valuation Theory and its Applications at Oberwolfach, Oct. 2014.

- Together with C. Bandt, K. Kuhlmann and T. Szarek, I organized a session on "General forms of self-similarity in algebra and topology" at the Joint Meeting of the Polish Mathematical Society and the German Mathematical Society, Sept. 2014, Poznan (Poland).

- I was a member of the Scientific Committee and co-organizer of ALANT 3 – Joint Conferences on Algebra, Logic and Number Theory: the Fifteenth Colloquiumfest and the 10th Czech, Polish and Slovak Conference on Number Theory, June 8-13, 2014, Będlewo (Poland).

- I was a member of the Scientific Committee of the Summer School around Valuation Theory, May 22-26, 2014, Sirince (Turkey).

- Together with J.C. Wang, C. Dutchyn and K. Kuhlmann, I organized the Fourteenth Colloquiumfest, Saskatoon, Feb. 29 and March 1, 2014. Supported by the Pacific Institute of the Mathematical Sciences.

- Together with W. Kubis and J. Kakol, I organized a workshop on Fractal Structures, Ultrametrics and Ordered Fields, Cieszyn (Poland), April 2013.

- Together with O. Piltant and A. Campillo, I organized the Thirteenth Colloquiumfest at the University of Valladolid (Spain), Feb. 2013.

- I co-organized the Joint Conferences on Algebra, Logic And Number Theory – ALANT 2: Twelfth Colloquiumfest and 9th Czech, Polish and Slovak Conference on Number Theory, Beskydy Mountains (Czech Republic), June 11-14, 2012. See http://ntc.osu.cz/2012.

- I organized the Eleventh Colloquiumfest, Saskatoon, February 2012. Supported by the Pacific Institute of the Mathematical Sciences.

- I organized the Emphasis Year on Valuation Theory, Saskatoon, 2011-12. See http://math.usask.ca/fvk/emphyear.pdf.

- I initiated and was Chair of the Organizing Committee of the Second International Conference and Workshop on Valuation Theory, Segovia and ElEscorial (Spain), July 18-29, 2011. This conference had 110 participants and was financially supported by various institutions in Spain. See http://www.singacom.uva.es/oldsite/seminarios/ConfWorkVT.
With A. Campillo and B. Teissier, I edited a Proceedings volume (670 pages). See http://www.ems-ph.org/books/book.php?proj_nr=182&srch=series|ecr.

- Together with Özlem Beyarslan, I organized the Tenth Colloquiumfest at Istanbul center for mathematical sciences (IMBM), Bogazici University South Campus, Istanbul (Turkey), June 13 and 14, and the subsequent Workshop on Valuation Theory in Positive Characteristic, Mathematics Village, Sirince (Turkey), June 15 to 19, 2011 which enabled young mathematicians to meet and collaborate with some leading researchers in areas connected with valuation theory.

- I organized the Workshop on Valuation Theory in Positive Characteristic, University of Silesia, Katowice (Poland), June 25 to July 3, 2010, aimed at young researchers. See http://math.usask.ca/ fvk/wkat.htm.

- I co-organized the Joint Conference on Algebra, Logic and Number Theory (9th Colloquiumfest in conjunction with the 8th Czech, Polish and Slovak Conference on Number Theory), Bukowina Tatrzańska (Poland), June 2010. See http://z2.math.us.edu.pl/alant.

- I co-organized a joint meeting of the Polish Singularity Seminar and the Algebra and Number Theory Seminar, University of Silesia, Katowice (Poland), April 2010.

- I was member of Scientific committee for the conference "Fundamental Structures of Algebra" in honor of the 70th birthday of Professor Serban Basarab (Romanian Institute of Mathematics, Bukarest). Faculty of Mathematics and Computer Science, Ovidius University, Constanta (Romania), April 2010. See http://math.univ-ovidius.ro/conference/70.

- Together with B. Teissier, I organized a mini-workshop on new perspectives in valuation theory at the Fields Institute, Toronto, March 23-25, 2009.

- Together with L. Ghezzi and H. Schoutens I organized the Eighth Colloquiumfest in March 2009 at the CUNY Graduate Center in New York.

- I organized the Seventh Colloquiumfest in 2008 in Saskatoon.

- Together with D. Cutkosky, S. Faridi and I. Swanson I organized a two weeks summer school and one week conference on "Valuation Theory and Integral Closures in Commutative Algebra", held at the University of Ottawa in July of 2006. The summer school received a funding of CAD 30,000 from the Fields Institute. Together with H. Knaf I delivered a lecture series on valuation theory and local uniformization.

- I was a member of the Scientific Committee for the "Workshop on Valuation Theory and its Applications", held at the University of Campinas (Brazil), March 21-24, 2006.

- Together with Z. Chatzidakis I organized the Fifth Colloquiumfest in April 2003 at the Institut Henri Poincaré in Paris.

- Together with Dale Cutkosky I organized Research in Teams on resolution of singularities for three weeks in the summer of 2003 at the Banff International Research Station.

- Together with Salma Kuhlmann and Murray Marshall, I organized the Third Colloquiumfest in March 2002 and the Fourth Colloquiumfest in March 2003, both in Saskatoon.

- Together with Salma Kuhlmann, I organized a special session on Model Theoretic Algebra for the Summer Meeting 2001 of the Canadian Mathematical Society in Saskatoon. I was also on the board of local organizers of this very successful meeting. See http://cms.math.ca/Events/summer01.

- Together with Salma Kuhlmann and Murray Marshall, I organized the Second Colloquiumfest in Saskatoon in March 2001.

- Together with Salma Kuhlmann, I organized the Colloquiumfest in honour of Murray Marshall's 60th birthday in Saskatoon in March 2000.

- Together with M. Marshall and S. Kuhlmann, I organized the International Conference and Workshop on Valuation Theory with approx. 100 participants in Saskatoon (July/August 1999). The conference received financial support of CAD 32,000 from Fields Institute, PIMS and CRM. See http://math.usask.ca/fvk/annconf.htm. Together with M. Marshall and S. Kuhlmann, I edited Proceedings in two volumes in the Fields Institute Communications Series, published by the AMS; see http://math.usask.ca/fvk/proc.htm.

Invited conference, summer school and workshop talks.

- July 2019: A series of three lectures on *The defect, resolution of singularities and the model theory of valued fields* at the Second International Meeting in Commutative Algebra and Related Areas (SIMCARA), ICMC-USP, São Carlos, Brazil.
- June 2019: *Beyond tame fields*, Model Theory of Valued Fields and Applications, University of Münster, Germany.
- September 2018: *Valuation theory, generalized IFS attractors and fractals*, session "Hutchinson-Barnsley Theory of Fractals", Joint Meeting of UMI-SIMAI-PTM, Wroclaw, Poland.
- March 2018: *Pushing back the barrier of imperfection*, conference "Model Theory of valued fields", IHP, Paris, France.
- July 2017: *Pushing back the barrier of imperfection*, conference "Model Theory", Będlewo, Poland.

- October 2016: *Extremal fields*, Conference "Definability and Decidability Problems in Number Theory", Oberwolfach, Germany.
- May 2016: *Ramification theory, elimination of ramification, and the defect*, Two approaches towards local uniformization and resolution of singularities in char $p > 0$, Mittag-Leffler Institute, Stockholm, Sweden.
- October 2015: *Symmetrically complete ordered fields*, Ordered Algebraic Structures and Related Topics, CIRM, Luminy, France.
- May 2015: *Elimination of ramification since Abhyankar and Epp*, Jubileusz Profesora Wiesława Pawłuckiego, Jagellonian University, Krakow, Poland.
- August 2014: *Ball spaces – a framework for fixed point theorems inspired by ultrametric spaces*, 13th International Conference on p-adic Functional Analysis, Paderborn, Germany.
- July 2014: Three one hour talks *A general framework for fixed point theorems, and more* at the 29th Summer Conference on Topology and its Applications, College of Staten Island, CUNY, New York, USA.
- May 2014: Together with K. Kuhlmann, a series of four one hour talks on *Fixed point theorems inspired by ultrametric spaces* at the Summer School Around Valuation Theory, Sirince, Turkey.
- August 2013: *General fixed point and attractor theorems and their applications*, 9th International ISAAC Congress, Krakow, Poland.
- January 2013: Colloquium talk *Fixed point theorems* and a series of lectures on *Local uniformization and the model theory of valued fields*, University of Valladolid, Spain.
- July 2012: *Elimination of wild ramification in immediate valued function fields – continuing Kaplansky's work*, Conference in honour of Shreeram S. Abhyankar on occasion of his 82nd birthday, Purdue University, USA.
- July 2010: *Artin-Schreier defect extensions and local uniformization. Conference on Algebra and Algebraic Geometry with Applications*, Conference in honour of Shreeram S. Abhyankar on occasion of his 80th birthday, Purdue University, USA.
- May 2010: *The structure of valued function fields in positive characteristic - known results and open problems*, Antalya Algebra Days XII, Antalya, Turkey.
- April 2010: *Quantifier Elimination for Valued Fields*, Conference "Fundamental Structures of Algebra" in honor of the 70th birthday of Professor Serban Basarab (Romanian Institute of Mathematics, Bukarest), Ovidius University, Constanta, Romania.
- March 2010: *Artin-Schreier Extensions and Elimination of Wild Ramification*, SING 2010 - Resolution of Singularities Problems, Tordesillas, Spain.
- August 2009: *What do we know about $F_p((t))$?*, Workshop on Model Theory, University of Wrocław, Poland.
- May 2006: lecture series on valuation theory and local uniformization, Summer School on Resolution of Singularities, Trieste, Italien; some of the other lecture series were delivered by H. Hironaka, B. Teissier, S. D. Cutkosky, H. Hauser.
- May 2006: *What do nonstandard methods tell us about formal Laurent series fields over finite fields?*, International Congress NSM 2006 "NonStandard Methods and Applications in Mathematics", Pisa, Italy.
- March 2006: *The defect*, Workshop in valuation theory and its applications, Campinas, Brazil.
- October 2003: two talks *Resolution of singularities and the model theory of valued fields* and *Additive polynomials and their role in the model theory of power series fields over finite fields and in local uniformization*, Workshop and Conference on Logic, Algebra and Arithmetic, Institute for Theoretical Physics and Mathematics, Tehran.
- October 2002: *On local uniformization in arbitrary characteristic*, AMS Meeting, Boston, Singularities in Algebraic and Analytic Geometry Session.

- October 2001: *Additive polynomials and the model theory of valued fields in positive characteristic*, CUNY Logic Workshop, New York, USA.
- February 2001: *Functional equations in lexicographic products*, Festkolloqium and Conference on Algebra, Model Theory and Theoretical Physics celebrating Rüdiger Göbel's 60th Birthday, University of Essen, Germany.
- December 2000: *On local uniformization in arbitrary characteristic*, Canadian Mathematical Society Winter Meeting, Vancouver, Canada.
- July 2000: *On local uniformization in arbitrary characteristic*, Conference on algebra and algebraic geometry with applications (conference in honour of S. Abhyankar's 70th birthday), Purdue University, USA.
- January 2000: *Additive polynomials and the elementary properties of $F_p((t))$*, Model Theory Conference, Oberwolfach, Germany.
- May 1999: talk on elimination of quantifiers in the "Model theory of henselian valued fields" workshop at the ICMS, Edinburgh.
- January 1999: *A Valuation Theoretic Approach to Local Uniformization*, Singularities session of the AMS annual meeting, San Antonio, Texas, USA.
- January 1999: *Local Uniformization and the Model Theory of Valued Fields in Positive Characteristic*, Model Theory session of the AMS annual meeting, San Antonio, Texas, USA.
- October 1998: *Rational place = existentially closed?*, Model Theory Conference at Oberwolfach.
- Nov. 1997: Talk on local uniformization and the model theory of valued fields in positive characteristic at the Midwest Model Theory Meeting at Urbana, USA.
- Apr. 1997: Four talks on local uniformization in arbitrary characteristic and the prerequisites from ramification theory and the theory of valued function fields at the Valuation Theory workshop, The Fields Institute, Toronto, Canada.
- Mar. 1997: Talk on exponential Hardy fields at the Model Theory of Analytic Functions workshop, The Fields Institute.
- Feb. 1997: Talk in the Singularity Seminar, The Fields Institute.
- Sep. 1995: talk at a one day conference on model theory at the University of Leeds.

Seminar and colloquia talks.

I gave talks at seminars or the department colloquium at the following universities: *Canada:* McGill, U of Alberta at Edmonton, McMaster, Algebraic Geometry Seminar of the University of Toronto, UBC Vancouver, Calgary; *England:* Exeter, Newton Institute Cambridge, Leeds, Oxford, University of Central Lancashire; *France:* Angers, Hautes Savoie Chambery, Mons, Number Theory Seminar Paris VI, Algebraic Geometry seminar Paris VII, Logic seminar Paris VII, Versailles; *Germany:* Bielefeld, Bonn, Darmstadt, Dresden, Freiburg, Hannover, Konstanz, Munich, Oldenburg, Osnabrck, Paderborn, Potsdam, Regensburg; *India:* Chandigarh, Jaipur, Tata Institute Bombay; *Iran:* Shiraz; *Israel:* Haifa, Jerusalem, Tel Aviv; *Netherlands:* Groningen; *Poland:* Banach Center Warszawa, Katowice, Łódź, Poznan, Szczecin, Wroclaw; *Spain:* Valladolid; *Turkey:* Bilgi University Istanbul, Bogazici University Istanbul; *USA:* Columbia University Missouri, CUNY Graduate Centre, Florida International Miami, U of Illinois at Chicago, UPenn, Louisiana State Baton Rouge, Tulane New Orleans, Rutgers.

Research visits.

- July/August 2019: 6 weeks visit to the Department of Mathematics, Federal University of São Carlos, Brazil, upon invitation by Josnei Novacoski.
- February/March 2018: 3 weeks participation in the trimester on "Model Theory, Combinatorics and Valued Fields", IHP, Paris, France.
- Sabbatical (January 2013 to June 2013): 24 days research visit at the University of Valladolid (Spain), for collaboration with O. Piltant, January 2013. Research visit at the University of Silesia at Katowice, February to June 2013.

- Sabbatical (January 2009 to June 2009): Participation in the "Thematic Program on o-minimal structures and real analytic geometry" at the Fields Institute, Toronto, January-March 2009. 10 days research visit at the CUNY Graduate Centre in New York. March 2009. 10 days research visit at Bilgi University, Istanbul (Turkey), April/May 2009. Research visit at the University of Beer Sheva (Israel), January and April to June 2009.
- Summer of 2008: Four weeks at the University of Konstanz; one week at Paris; two weeks at the University of Katowice.
- I participated in the research program "Model Theory and Applications to Algebra and Analysis" at the Isaac Newton Institute for Mathematical Sciences in Cambridge, UK, 6 weeks in of 2005.
- Sabbatical (September 2003 to June 2004) at the Institut de Mathématiques de Jussieu (Université Paris 6/7) as a guest of the "Equipe Géométrie et Dynamique", and at the Laboratoire de Mathématiques de l'Université de Versailles Saint-Quentin-en-Yvelines as a guest of the "Equipe Algèbre-Géométrie". I also worked with members of the Equipe de Logique Mathématique at Université Paris 7.
- May 2001: One week visit at Columbia University, Missouri (USA).
- June 1998: One month visit at the University of LeMans (France).
- May 1998: One week visit at the "Model theory of fields" program at MSRI, Berkeley.
- November 1997: One month visit at the University of Illinois at Urbana-Champaign.
- Academic year 1996/97: Visiting member of the Fields Institute, Toronto, for the emphasis year on algebraic model theory.
- April/May 1996: One month visit at Louisiana State University, Baton Rouge, for the special semester on real algebraic geometry and ordered structures.
- Jan. – Mar. 1995: Three months visit at the University of Chandigarh (India), including one week visit at the Tata Institute, Bombay.
- Feb./Mar. 1992: Five weeks visit at the Hebrew University, Jerusalem, for the emphasis year on field arithmetic.
- Sep. 1988: One month visit at the University of Bordeaux.

Refereeing and Reviewing.

I have refereed many papers in valuation theory, model theory, rigid analysis and algebraic geometry. Also, I have written reviews for Zentralblatt and Math Reviews, and 15 articles for a supplementary volume of the Encyclopaedia of Mathematics (ed. M. Hazewinkel). I have been the external referee for two theses in valuation theory. I have reviewed several NSF and NSERC grant applications. I have been external reviewer for a promotion case to the rank of professor, and for an application for the Polish Professor title.