

## CURRICULUM MICHEL VAN DEN BERGH

### PERSONAL DATA

- Birthdate : 25-7-60<sup>1</sup>
- Spouse : Gerda Bust
- Children : Bertold (9-8-90) and Sarah (3-3-99).

### EMPLOYMENT

- 1-9-82 to 31-7-87, Researcher at the FWO<sup>2</sup>.
- 1-9-85 to 31-12-85, Instructor at the Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts.
- 15-8-87 to 1-7-88, C.L.E. Moore Instructor at the MIT.
- 1-10-88 to 31-12-88, Assistant UIA<sup>3</sup>.
- 1-1-89 to 31-12-90, Senior researcher at the FWO.
- 1-1-91 to 30-9-91, Assistant UIA.
- 1-10-91 to 30-9-92, Visiting position at the Institut des Hautes Etudes Scientifiques (IHES), Paris.
- 1-10-92 to 1-10-95, Professor at the Institut Louis Pasteur, Strasbourg (tenured position).
- 1-10-93 to -, Director of research at the FWO (“onderzoeksleider”). Based at the University of Hasselt.
- 1-10-94 to -, part time appointment at the “Free University of Brussels”.
- 15-1-95 to 31-5-95, Visiting Associate Professor at MIT.
- 1-1-98 to 23-7-98, Visiting Professor at MIT.
- 1-2-00 to 30-4-00, Visiting “Key Senior Scientist” at the Mathematical Sciences Research Institute (MSRI) te Berkeley (USA).
- 22-12-03 to 18-6-04, Visiting position at the Mittag Leffler Institute in Stockholm.
- 15-01-2013 to 24-05-2013, MSRI, Organizer special program on “Non commutative algebraic geometry and representation theory”.

### SCIENTIFIC CARREER

- 10-7-79 to 7-7-82, Under graduate degree at the UIA (greatest distinction)
- 22-3-85, PhD in Mathematics, UIA
- 17-5-90, “Hoger Aggregaat<sup>4</sup>”, UIA

### SCIENTIFIC DISTINCTIONS

- 20-12-87, Laureat of the Belgian Academy of Sciences
- 7-6-97, Five-yearly “Alumni Prize” in mathematics.
- 23-6-2003, “Francqui Prize” (interdisciplinary prize by the Belgian Francqui Foundation).
- 4-2020 ERC Advanced grant SCHEMES.

---

<sup>1</sup>All dates are in the day-month-year format

<sup>2</sup>The FWO is the Belgian equivalent of for example the CNRS in France or the NSF in the USA

<sup>3</sup>UIA is the main university in Antwerp

<sup>4</sup>equivalent of “Habilitation”

#### ORGANIZATION OF CONFERENCES

I was/am co-organizer of the following conferences.

- 14-2-2000 to 25-2-2000, MSRI, Interactions between algebraic geometry and non-commutative algebra.
- 14-4-2002 to 20-04-2002, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
- 12-1-2004 to 16-1-2004, Mittag-Leffler Institute, Non-commutative algebraic geometry.
- 9-8-04 to 27-08-04, International Centre for Theoretical Physics, Advanced summer school and workshop on non-commutative algebraic geometry.
- 22-10-2004 to 24-10-2004, Brussels, Francqui colloquium “Homological geometry”.
- 7-5-2006 to 13-5-2006, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
- 18-9-2006 to 22-9-2006, Shanghai, Workshop on non-commutative algebraic geometry.
- 9-5-2010 to 15-5-2010, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
- 12-09-2011 to 16-09-2011, Shanghai, Noncommutative Algebraic Geometry.
- Spring 2013 (semester long program), MSRI, Noncommutative algebraic geometry and representation theory.
- 18-5-2014 to 24-5-2014, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.
- 19-9-2016 to 24-9-2016 Antwerp, Non-commutative, derived and homotopical methods in geometry.
- 5-12-2016 to 9-12-2016 Oxford, Clay Workshop: Generalized Geometry and Noncommutative Algebra.
- 27-05-2018 to 2-06-2018, OberWolfach, Interactions between algebraic geometry and non-commutative algebra.

I was/am in the Scientific Advisory Panel for

- 18-12-2006 to 22-12-2006, Newton Institute Cambridge, Trends in Noncommutative Geometry.

#### SCIENTIFIC RESPONSABILITIES

- Editor “Advances in Mathematics”
- Editor “Applied Categorical Structures”
- Editor “Algebras and Representation Theory”
- Editor “Journal of Noncommutative Geometry”
- Editor “Journal of Algebra and Number Theory”
- Editor “Higher structures”
- Formerly: Editor “Journal of Algebra.”
- Formerly: Editor “Bulletin of the Belgian Mathematical Society”.

#### LONGER STAYS ABROAD

- 15-06-06 to 15-07-06, Invited professor at Paris 7.
- 1-10-2010 to 31-10-2010, Bonn, 1 month scientific visit to the Max Planck Institute.

- 9-11-2010 to 28-12-2010, Paris, 1 1/2 months scientific visit to the IHES.
- 11-07-2011 to 2-08-2011, Kyoto, 3 weeks visit to RIMS.
- 24-06-2012 to 7-07-2012, OberWolfach, Research in Pairs.
- 31-08-2014 to 20-09-2014, Trieste, 3 weeks scientific visit to SISSA, cooperation with Alice Rizzardo.
- 1-1-2016 to 31-1-2016, Bonn, 1 month scientific visit to the Max Planck Institute.
- 1-10-2018 to 12-10-2018, Trento, Research in Pairs.
- 1-10-2019 to 31-1-2020, Bonn, 4 months scientific visit to the Max Planck Institute.

#### PHD-STUDENTS

- Bert Sevenhant (1-10-01): Wild quivers: on a conjecture of Kac and the Ringel-Hall algebra.
- Martine Van Gastel (4-1-02): The local and global structure of non-commutative projective planes.
- Wendy Lowen (18-3-05): Deformation theory and Hochschild cohomology of abelian categories.
- Koen de Naeghel (27-2-06): Ideals of three dimensional Artin-Schelter regular algebras.
- Adam-Christiaan Van Roosmalen (15-5-2008): On the classification of hereditary categories.
- Louis de Thanhoffer de Volcey (29-05-2015): Non-commutative projective geometry and Calabi-Yau algebras.
- Theo Raedschelders (12-05-2017): Manins universal Hopf algebras and highest weight categories.
- Dennis Presotto (14-06-2017): Noncommutative del Pezzo surfaces and related topics.
- Pieter Belmans (joint with Wendy Lowen, 9-06-2017): Connections between commutative and noncommutative algebraic geometry.
- Timothy De Deyn.

#### INVITED LECTURES

- (1) 29-1-84 to 4-2-84, Oberwolfach, lecture at the conference “Brauer groups of Fields”.
- (2) 26-8-84 to 1-8-84, Luminy, lecture at the conference “Ring Theory”.
- (3) 23-1-86, Paris, lecture at the Seminar Malliavin.
- (4) 27-6-87, Zurich, lecture at the Seminar P. Gabriel.
- (5) 4-11-87, Yale Univ., Colloquim lecture.
- (6) 12-11-87, Brandeis Univ., lecture at the MIT, Harvard, Brandeis colloquim.
- (7) 29-5-88 to 4-6-88, OberWolfach, lecture at the conference “Orders and their applications”.
- (8) 26-12-88 to 1-1-89, Jerusalem, lecture on the conference in honor of S.A. Amitsur sixtieth birthday.
- (9) 8-1-89 to 11-1-89, Beer Sheeba, lecture at a conference on “Hopf algebras”.
- (10) 20-3-89, Paris, lecture at the seminar Malliavin.
- (11) 29-5-89, Paris, lecture at the seminar Malliavin.

- (12) 4-6-89 to 10-6-89, Oberwolfach, lecture at the conference “Rings and modules”.
- (13) 10-6-89 to 21-6-89, Berkeley, lecture at the conference “Micro program on non-commutative rings”.
- (14) 9-11-89, Utrecht, colloquium lecture at the State University of Utrecht.
- (15) 19-2-90, Paris, lecture at the seminar Malliavin.
- (16) 10-12-90, Paris, lecture at the seminar Malliavin.
- (17) 8-9-91, Paris, lecture at the enveloping algebra seminar.
- (18) 13-1-92, Paris, lecture at the seminar Alev, Levasseur, Peskine (formerly organized by M.P. Malliavin).
- (19) 30-6-92 Paris, lecture at the conference on Invariant Theory.
- (20) 16-6-92, Orsay, lecture at the seminar on Algebraic geometry.
- (21) 14-1-92, Grenoble, seminar lecture.
- (22) 29-1-92, Strasbourg, seminar lecture.
- (23) 30-1-92, Strasbourg, seminar lecture.
- (24) 12-3-92, Reims, seminar lecture.
- (25) 1-2-93, Paris, lecture at the seminar ALP.
- (26) 15-4-94, Edinburgh, lecture at the Scottish Algebra day.
- (27) 2-9-94 to 11-9-94, Zurich, section talk at the International Congress of Mathematicians (ICM94)
- (28) 25-7-94 to 29-7-94, Almeria, lecturer in a Spanish summerschool on quantumspaces.
- (29) 14-11-94, Paris, lecture at the seminar ALP.
- (30) 18-11-94, Paris, lecture at the enveloping algebra seminar.
- (31) 27-6-95 to 30-6-95, Reims, invited lecture at “Contact Franco-Belge”.
- (32) 29-7-95 to 4-8-95, OberWolfach, lecture in the conference on “Enveloping Algebras”.
- (33) 20-9-95, Paris, lecture at the seminar ALP.
- (34) 22-5-96 to 25-5-96, Antwerp, plenary lecture on the “Joint meeting of the Americal Mathematical Society and the Benelux Mathematical Societies”.
- (35) 19-6-96 to 21-6-96, Paris, lecture on the “Journées Solstice d’ete”.
- (36) 17-6-96 to 18-6-96, Louvain la Neuve, lecture at the “Euroconference on Linear Algebraic Groups and Related Structures”
- (37) 23-5-97, Lyon, lecture at the Journée d’Algebre.
- (38) 10-10-97, Copenhagen, seminar lecture.
- (39) 16-11-97 to 22-11-97, OberWolfach, lecture at “Enveloping Algebras and Representation Theory”.
- (40) 17-8-97 to 23-8-97, Oberwolfach, lecture at “Noncommutative algebra and representation theory”.
- (41) 1-6-98,2-6-98, Univ. of Washington, algebra seminar lectures.
- (42) 4-6-98, Eugene, Univ. of Oregon, colloquium lecture.
- (43) 5-6-98, Eugene, Univ. of Oregon, algebra seminar lecture.
- (44) 4-9-98, Bielefeld, plenary lecture on ICRTA8.5.
- (45) 3-4-98, MIT, lecture in the seminar on infinite dimensional Lie algebras.
- (46) 11-5-98, Boston, North Eastern Univ., lecture in representation theory seminar.
- (47) Feb. ’98-May ’98, MIT, weekly series of lectures on “non-commutative blowing up”.

- (48) 16-10-98, Paris, lecture in the seminar on enveloping algebras.
- (49) 19-10-98, Paris, lecture in the seminar Alev, Keller, Levasseur, Peskine.
- (50) 8-4-99, Bonn, lecture in the seminar on “Non-commutative algebraic geometry” at the “Max Planck Institute fur Mathematik”.
- (51) 29-5-99 to 1-6-99, St John’s, Canada, plenary lecture at the summer meeting of the Canadian Mathematical Society.
- (52) 24-6-99 to 15-7-99, Bonn, lecture at a workshop on “Non-commutative algebraic geometry” at the MPI.
- (53) 16-12-99, Utrecht, Colloquim lecture.
- (54) 1-2-00 to 31-5-00, 6 lectures in a seminar on non-commutative geometry.
- (55) 15-9-00 to 1-10-00, Bonn, lecture at a workshop on “Non-commutative algebraic geometry” at the MPI.
- (56) 21-5-01, Paris, Lecture in the seminar Alev, Keller, Levasseur, Peskine.
- (57) 23-6-01 to 29-6-01, Beer-Sheva, Plenary speaker on the Amitsur memorial symposium.
- (58) 25-1-02 to 31-1-02, Paris, Lecture in the seminar Alev, Keller, Levasseur, Peskine and a
- (59) Lecture in the seminar on enveloping algebras.
- (60) 28-04-02 to 04-05-02, OberWolfach, Lecture at the conference on “Enveloping Algebras”.
- (61) 03-06-02 to 08-06-02, Oslo, Lecture at the Abel bicentennial conference.
- (62) 02-09-02 to 08-09-02, Almeria, Two lectures at a conference on non-commutative algebraic geometry.
- (63) 18-11-02 to 22-11-02, Fraueninsel, Germany, Two lectures at the symposium “Twenty years of tilting theory”.
- (64) 9-11-02 to 13-11-02, Luminy, Lecture at a conference on “Quiver varieties”.
- (65) 29-12-2002 to 2-02-2003, Michigan, Visit to Toby Stafford (2 lectures).
- (66) 3-02-03 to 7-02-03, Berkeley, Lecture at a conference on “Commutative algebra”.
- (67) Feb’ 03, Paris, Lecture in the Seminar Alev, Levasseur, Keller, Peskine.
- (68) 11-03-03 to 15-03-03, Manchester, Lecture at a conference on “Geometric Representation and Invariant Theory”.
- (69) 2-06-03 to 06-06-03, Edinburgh, Tutorial lectures on applications of derived categories to non-commutative algebra.
- (70) 14-07-03 to 18-07-03, Lisboa, Plenary lecture at a conference on “Algebras, Rings and Modules”.
- (71) 27-10-03 to 31-10-03, Luminy, Lectures on “Schémas de Hilbert, algèbre noncommutative et correspondance de McKay”.
- (72) 12-1-04 to 17-1-04, Stockholm, Lecture at workshop.
- (73) 14-6-04 to 21-7-04, Warwick, Lecture at workshop on non-commutative geometry.
- (74) 2-8-04 to 7-8-04, Edinburgh, Lecture at workshop on “Quivers and strings”.
- (75) 9-8-04 to 27-8-04, Trieste, Course on homological algebra at the “International Center for Theoretical Physics”.
- (76) 26-8-04, Trieste, talk at workshop at the “International Center for Theoretical Physics”.
- (77) 3-9-04 to 5-9-04, Matsumoto, 3 lectures on conference on ring theory.
- (78) 4-10-04, Paris, Lecture on a day in honor of Marie-Paule Malliavin.

- (79) 6-2-05 to 12-02-05, Oberwolfach, 2 lectures in the meeting “Representation Theory of Finite-Dimensional Algebras”.
- (80) 17-4-05 to 14-5-05, Michigan, visit to Toby Stafford (no lecture).
- (81) 14-5-05 to 21-5-05, Toronto, visit to Buchweitz (no lecture).
- (82) 30-06-05, Bonn, lecture at the Max Planck Institute for Mathematics.
- (83) 1-07-05, Bonn, lecture at Bonn University.
- (84) 16-09-05 to 21-09-05, Spa, lecture in the ESF meeting “Geometric Representation and Invariant Theory Algebraic Quantization and Deformations”.
- (85) 17-10-05 to 21-10-05, Mainz, 5 lectures on the “Autumn school on deformation theory”.
- (86) 1-04-06 to 6-04-06, Banff, Canada, Lecture at the conference on “Recent trends in higher dimensional geometry”.
- (87) 7-05-06 to 13-05-06, Tokyo, Lecture at the conference “Poisson 2006”.
- (88) 15-06-06 to 15-07-06, Paris, 3 lectures.
- (89) 16-09-06 to 28-09-06, Shanghai, lecture at Tiaotong University.
- (90) 1-10-06 to 31-10-06, Cambridge, no lectures.
- (91) 10-10-06, Oxford, Lecture in the algebraic geometry seminar.
- (92) 10-11-06, Strasbourg, Lecture in a conference on operads.
- (93) 11-11-06, Paderborn, Lecture at a conference in honor of Helmut Lenzing.
- (94) 1-4-2007 to 7-4-2007, Lyon, Lecture.
- (95) 26-8-2007 to 31-8-2007, Konstanz, Germany, 3 lectures on a summerschool devoted to de Jong’s theorem.
- (96) 10-9-2007 to 14-9-2007, Beijing, 3 lectures at the summerschool “Workshop on Categorification, Quantization and Clusters” at the Morning Side Center of Mathematics.
- (97) 18-9-2007 to 22-9-2007, Almeria, conference in honor of Fred Van Oystaeyen.
- (98) 1-11-07 to 30-11-07, Barcelona, Spain.
- (99) 5-11-2008 to 15-11-2008, Barcelona, 1 lecture on meeting “Derived categories”.
- (100) 5-5-2008 to 30-06-2008, Barcelona, plenary lecture at “HOCAT 2008 - Homotopy structures in geometry and algebra; derived categories, higher categories”.
- (101) 11-8-2008 to 15-8-2008, Bonn, lecture at meeting on “Deformation quantization”.
- (102) 1-9-2008 to 5-9-2008, Pisa, lecture at “Cats 3”.
- (103) 28-11-2008 to 29-11-2008, Reims, lecture at meeting in honor of “Jacques Alev”.
- (104) 24-8-2009 to 28-8-2009, Kyoto, lecture at meeting on “non-commutative geometry”.
- (105) 24-6-2010 to 26-6-2010, Canterbury, lecture at the “Kent algebra days”.
- (106) 21-10-2010, Bonn, lecture in the algebraic geometry seminar at the Max Planck Institute.
- (107) 18-10-2010, Bonn University, lecture in the representation theory seminar.
- (108) 15-11-2010, Paris, lecture at the Séminaire d’Algèbre at the IHP.
- (109) 24-1-2010 to 28-1-2010, Tokyo, lecture at the conference “Derived Categories”.
- (110) 18-2-2011, Amsterdam, lecture at the GQT colloquium.

- (111) 20-2-2011 to 26-2-2011, OberWolfach, lecture at the conference “Representation Theory of Quivers and Finite Dimensional Algebras”.
- (112) 21-05-2011 to 27-05-2011, Cordoba, Argentina, 4 lectures at a “Spring school” on non-commutative ring theory.
- (113) 27-06-2011 to 1-07-2011, Ascona, Switzerland, lecture at the conference “The legacy of deformation quantization”.
- (114) 8-08-2012 to 17-08-2012, ICRA, Bielefeld. Lecture.
- (115) 27-08-2012 to 7-09-2012, Berkeley, MSRI introductory workshop on commutative algebra and cluster algebras, 3 lectures.
- (116) 8-12-2013 to 14-12-2013, OberWolfach, Cluster Algebras and Related Topics.
- (117) 16-02-2014 to 22-02-2014, OberWolfach, Representation Theory of Quivers and Finite Dimensional Algebras, lecture.
- (118) 21-03-2014 to 6-04-2014, MIT, Scientific cooperation with Gonçalo Tabuada.
- (119) 18-05-2014 to 24-05-2014, OberWolfach, Noncommutative geometry and representation theory, organizer.
- (120) 7-07-2014 to 12-07-2014, Eugene, Scientific cooperation with Alexander Polishchuk.
- (121) 14-07-2014 to 18-07-2014, Palo Alto, participation in AIM workshop (collaborative research).
- (122) 22-10-2014 to 24-10-2014, Clermond Ferrand, mini course about the joint work with Calaque and Rossi.
- (123) 8-12-2014 to 13-12-2014, Warwick, DG enhancements and higher category methods, lecture.
- (124) 26-04-2015 to 2-05-2015, New York, Columbia University, two lectures.
- (125) 1-06-2015 to 6-06-2015, Warwick, Derived categories and birational geometry, lecture.
- (126) 10-08-2015 to 14-08-2015, Mexico, Guanajuato, D-modules in Commutative Algebra, lecture.
- (127) 10-11-2015 to 14-11-2015, London, Imperial College, Seminar lecture.
- (128) 15-11-2015 to 31-11-2015, University of Edinburgh, Seminar lecture.
- (129) 1-1-2016 to 31-1-2106, Bonn, Max Planck Institute, lecture.
- (130) 18-3-2016 to 22-3-2016, Bonn, Max Planck Institute, Closing Conference for the Program on Higher Structures in Geometry and Physics, lecture.
- (131) 1-7-2016 to 9-7-2016, Osaka University, lecture.
- (132) 10-7-2016, Nagoya Univerity, lecture.
- (133) 13-7-2016 to 17-7-2016, RIMS, Kyoto, lecture.
- (134) 27-7-2016 to 1-7-2016, Toulouse, New methods in birational geometry, lecture.
- (135) 4-7-2016 to 8-7-2016, Dijon, Interacting algebraic geometry, lecture.
- (136) 28-11-2016 to 2-11-2016, San Jose, participation in AIM SQUARES meeting (collaborative research).
- (137) 9-1-2017 to 21-1-2017, Ljubljana (research cooperation).
- (138) 20-2-2017 to 23-2-2017, Osaka, Derived category and birational geometry, lecture.
- (139) 15-5-2017 to 19-5-2017, Bielefeld, Triangulated Categories and Geometry - a conference in honour of Amnon Neeman, lecture.

- (140) 19-7-2017 to 23-6-2017, Edinburgh, Linking noncommutative rings and algebraic geometry, lecture.
- (141) 16-10-2017 to 27-10-2017, Bonn, Hausdorff Institute, Conference+research visit, lecture.
- (142) 27-8-2018 to 31-8-2018, San Jose, participation in AIM SQUARES meeting (collaborative research).
- (143) 26-11-2018 to 30-11-2018, Hokaido, Categorical and analytic invariants in algebraic geometry, lecture.
- (144) 19-03-2019 to 23-03-2019, Muenster, Buchweitz memorial conference, lecture.
- (145) 3-04-2019, Brussels, Fred Van Oystaeyen honorary doctorat, lecture.
- (146) 24-06-2019 to 28-06-2019, Cetraro, Workshop on Derived Categories, Moduli Spaces and Deformation Theory, lecture.
- (147) 1-07-2019 to 5-07-2019, Warsaw, Derived Categories and Geometry in Positive Characteristic, lecture.
- (148) 9-09-2019 to 14-09-2019, Liverpool, The Geometry of Derived Categories, lecture.
- (149) 6-2-2020, Paris, Colloquium lecture.