

Curriculum Vitae

Coordinates: Valery Vermeulen
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Belgian, 19 juni 1975
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Website: <http://www.valeryvermeulen.net/>

Education:

- 1997-2001: Phd in Pure Mathematics (Ghent University), obtained with the greatest distinction
Titel phd thesis: “Twin buildings: characterization and classification results”,
Promotor: Prof. Dr. H. Van Maldeghem (Ghent University), Copromotor: Dr. B. Mühlherr (Technische Universität Dortmund)
- 1993-1997: Masters of Mathematics (Ghent University), obtained with the highest distinction
- 2007-2010: Bachelor of Arts in Music, option: Composing Music: Music Production, obtained with distinction, School of Arts Ghent – Royal Conservatory
- 2010-2013: Master of Arts in Music, option: Composing Music: Music Production, option: Composing Music: Music Production, obtained with distinction, School of Arts Ghent – Royal Conservatory of Ghent

Software knowledge:

- Max/MSP, Max4Live, Reaktor, Pure Data, Quartz Composer, Processing, Arduino, R, S+, Statistica, SPSS, SAS, Matlab, C++, C, Java, Javascript, Perl, Flash, Visual Basic, HTML

Artistic CV

Experience:

- 2016-17:
visiting professor at Art & Tech department at Erasmus University College Brussels (Brussels, BE)

guest lecturer at Maastricht Academy of Media Design and Technology (Maastricht, NL)

guest lecturer at HKU (University College for the Arts Utrecht) – Department Music & Technology (Hilversum, NL)

guest lecturer at School of Arts – Ghent Conservatory (Gent, BE)

guest lecturer at Vrije Universiteit Brussel (VUB, Brussels, BE)

2015: visiting professor at Art & Tech department at Erasmus University College Brussels (Brussels, BE)

guest lecturer at MAD (Media, Arts & Design) -Faculty (Genk, BE)

guest lecturer at UDK (Universität der Kunste Berlin) (Berlin, BE)

guest lecturer at School of Arts – Ghent Conservatory (Gent, BE)

2014: visiting professor at Art & Tech department at Erasmus University College Brussels (Brussels, BE)

guest lecturer at MAD (Media, Arts & Design) -Faculty (Genk, BE)

guest lecturer Kunsthumaniora Antwerp (Antwerp, BE)

2013: visiting lecturer Kunsthumaniora Antwerp (Antwerp, BE)

2012: visiting lecturer at MAD (Media, Arts & Design)-faculty (Genk, Be)

visiting lecturer at Sint-Lucas Academy of Visual Arts Ghent (Ghent, Be)

2011: visiting lecturer at Hogeschool Sint-Lukas Brussel (Brussels, Be)

2007-2013: project and artistic management for the the interactive multimediaproject entitled “Montage Cinema Revived by the EMO-Synth” supported by the Flemish Authorities (support by the Flemish Audiovisual Fund and Flanders Image for the amount of 20747€).

- Responsible for planning, finances and periodical reporting.
- Responsible for the artistic coordination, organisation and realisation of software programming, mathematical modeling, sound design and image generation.

2001-2005: doctor scientific researcher at the Institute for Psychoacoustics and Electronic Music (IPEM) at Ghent University

- Responsible for statistical modeling of the link between music and emotions. Techniques used included discrete statistical methods, time series analysis, non parametric statistical modeling, functional regression methods, genetic programming and Bayesian statistics.

2006: Cooperation with producer and bass player Erik Van Biezen (producer and bass player for the national well known band Gorki, ex Paranoiacs and Axelle Red (“Elle danse seul” tour))

2003-2005: SKANNER, interactive multimedia project realised with the support of the Flemish Authorities, cooperation with visual artist Angelo Vermeulen

Performances en installations (selection):

2017:

- Mikromedas Live set, Ex #11 Dark Habitats Dark Ecology, SPEKTRUM | Art Science Community (Berlin, DE)
- Artist talk // invited panel member, FIBER Festival 2017, Brakke Grond (Amsterdam, NL)
- Artist talk, Re:Publica 2017 festival (Berlin, DE)
- Krystal Ball live set, Economia 2017 Festival, Baltan Lab (Eindhoven, NL)
- Mikromedas concert in combination with Museum of the Moon by L. Jerram (US), TECART 2017, WORM (Rotterdam, NL)

2016:

- Mikromedas Live Set, K+E event, Maracuja / AGORA Rollberg (Berlin, DE)
- Mikromedas Live set, State Festival (Berlin, DE)
- Mikromedas Live set, Oortreders Festival, Musica (Neerpelt, BE)
- Group show SUMMER CAMP#03, Cecilia Jaime Gallery (Ghent, BE)
- Lecture Performance, SPEKTRUM (Berlin, DE)
- Live set, Come Closer event, Oude Kerk (Amsterdam, NL)
- Live concert, Hacking Habitat Festival 2016 (Utrecht, NL)
- Live set, TEC ART 2016, WORM (Rotterdam, NL)

2015:

- Lecture/Performance, GLIMPS Festival 2015, Handelsbeurs Gent (Gent, NL)
- Krystal Ball concert, GOGBOT Festival 2015 (Enschede, NL)
- Live set, expo Wolkenkuckucksheim (Frankfurt, DE)

- Krystal Ball Sound Sculptures, Summer Camp#2, Cecilia Jaime Gallery (Ghent, BE)
- Mikromedas performance, Sound Scapes & Sound Identities - 7th FKL Symposium on Soundscape(Besenello, IT)
- Mikromedas Live Set, Drumherum (Berlin, DE)
- Mikromedas performance, Slingshot Festival Athens (Atlanta, US)
- Mikromedas live concert, expo What AB what AB what a Beauty (Frankfurt, DE)
- Group Show with Peter Beyls and Phill Niblock, Gallerie S& H De Buck (Ghent, BE)
- Mikromedas and Krystal Ball live concert with Peter Beyls and Phill Niblock, Gouvernement Gent, School of Arts Ghent / Gallerie S & H De Buck / Gouvernement Ghent (Ghent, BE)
- Nr 11 B / Mikromedas, Installation and concert, Cecilia Jaime Gallery, Ghent Light Festival 2015 (Ghent, BE)
- Krystal Ball, data concert, Cqrrrelations, Constant vzw and de Buren, Les Halles De Schaerbeek, (Brussels, BE)

2014:

- Mikromedas live performance, Update_5 Technology as Context (Zebrastraat, Ghent, BE)
- Mikromedas live performance, GOGBOT Festival (Enschede, NL)
- Mikromedas performance, Hörlurfestival (SE)
- Mikromedas live performance, DEAF (Dutch Electronic Art Festival, Rotterdam, NL)
- EMO-Synth meets Leonardo Da Vince, Muntpunt, Brussels (BE)
- Invited speaker at TEDxFlanders, (Antwerp, BE)

2013:

- Delta_p Delta_x (interactive multimedia installatio), Bozar Electronic Arts Festival, Bozar, (Brussels, BE)
- Invited speaker on biofeedback and applications in the arts, TES 2013 (Toronto Electroacoutic Symposium), Toronto (CA)
- “The EMO-Synth project, workshop”, GRETA, Rijeka (HR)
- Invited speaker on biofeedback and applications in the arts, EMS 13 (Electroacoustic Music in the Context of Interactive Approaches and Networks), Lisbon (PT)
- “The EMO-Synth project”, Liebig12, Berlin (DE)
- “The EMO-Synth project”, Greta Gallery, Zagreb (HR)
- “The EMO-Synth project”, CroArtScia2013 , Technical Museum, Zagreb (HR)
- “EMO-Synth”, Nuit Blanche, WARP (Waasland Art Projects), Sint-Niklaas (BE)
- “EMO-Synth”, Museum Night Fever 2013, Musical Instruments Museum, Brussels (BE)

2012:

- “Montage Cinema Revived by the EMO-Synth (Office Tamuraj presents EMO-Synth Prototype 5.2)”, Logos Foundation ,Ghent (BE)
- “Montage Cinema Revived by the EMO-Synth (Office Tamuraj presents EMO-Synth Prototype 5.2)”, KASK Cinema ,Ghent (BE)
- “Montage Cinema Revived by the EMO-Synth (Office Tamuraj presents EMO-Synth Prototype 5.2)” in collaboration with new music ensemble Champ d'Action, M HKA (Museum for Contemporary Art, Antwerp), Antwerp (BE)

2011:

- “Montage Cinema Revived by the EMO-Synth (Office Tamuraj presents EMO-Synth Prototype 5.2)”, Center for Digital Cultures and Technology, iMAL, Brussels, (BE)
- Artist in residence, Center for Digital Cultures and Technology, iMAL, Brussels (BE)

2010:

- “Montage Cinema Revived by the EMO-Synth (Office Tamuraj presents EMO-Synth Prototype 5.1 curated by Astrid David)”, Royal Conservatory of Ghent, Ghent (BE)
- “Montage Cinema Revived by the EMO-Synth (Office Tamuraj presents EMO-Synth Prototype 5.1 curated by Astrid David)”, DORKBOT Sessions, Timelab, Gent (BE)

2009:

- “Montage Cinema Revived by the EMO-Synth (Office Tamuraj presents EMO-Synth Prototype 5.1 curated by Astrid David)”, Art Cinema OFFoff, Ghent (BE)
- “Office Tamuraj presents EMO-Synth Prototype 5.0”, Happy New Ears Festival, Courtrai, (BE)

2008:

- “Office Tamuraj presents EMO-synth Prototype4.4 (curated by Astrid David)”, MHKA Media (Museum for Contemporary Art, Antwerp), Antwerp, (BE)
- “Office Tamuraj presents EMO-Synth Prototype 4.4 (curated by Astrid David)”, Gallerie Tatjana Pieters, Ghent, (BE)

2007:

- “Office Tamuraj presents EMO-Synth Prototype 4.3 (curated by Astrid David)”, art fare Lineart, Ghent (BE)
- “Office Tamuraj presents EMO-synth Prototype 4.2”, *expo Metamorphosis III*, LA.C. (Lieu d'Art Contemporain), Narbonne (Fr)
- “Office Tamuraj presents EMO-synth Prototype 4.2”, *expo Nighthawks*, X=10C, Acec Site, Ghent, (BE)
- “Office Tamuraj presents EMO-Synth Prototype 4.1 (curated by Astrid David)”, Croxhapox, Ghent, (BE)
- “Office Tamuraj presents EMO-Synth Prototype 4.0 (curated by Astrid David)”, artist studio, Ghent, (BE)

2006:

- “EMO-synth Prototype03”, *SPOTLIGHTS*, CC Hasselt, Hasselt, (BE)
- “EMO-synth Prototype02”, expo *PERSEVERANCE*, Godshuis, Sint Laureins, (BE)

2005:

- “SKANNER Labtest”, multi-media performance with visual artist Angelo Vermeulen, *Liebaerts Projects vzw*, Courtrai, (BE)
- “SKANNER Labtest 2.3”, multimedia performance with visual artist Angelo Vermeulen, *ARTEFACT FESTIVAL KULTURAMA 2005*, STUK, Leuven
- “Ikkiyu”, 3D sound composition, *ARTEFACT FESTIVAL KULTURAMA 2005*, STUK, Leuven
- “TAMURAJ Live set”, Café & Compagnie, Ghent, (BE)
- “SKANNER Labtest”, multimedia performance with visual artist Angelo Vermeulen, *Subliminal Festival*, Beursschouwburg, Brussels (BE)

Publications:

- Interview, GONZO (Circus) Magazine (Edition jan-feb 2016, Interview by T. Ploeg)
- Average Art Magazine (2016), Artist feature. Edition october 2016. Available from: <http://averagearts.bigcartel.com/product/average-art-magazine-october>
- Vermeulen, V. (2014) Affective computing and psychophysiology as new ways for interactive music compositions and performance. In: *eContact! 16.3*. Available from: http://cec.sonus.ca/econtact/16_3/vermeulen_affectivecomputing.html
- Huylebrouck, D. (2014) Muziek op maat (in Dutch). In *EOS, issue april 2014*. Available from: <http://eoswetenschap.eu/content/eos-april-2014>.
- Vermeulen, V. (2012) The EMO-Synth, an emotion driven music generator. In: *eContact 14.2! Biotechnological Performance Practice*. Available from: http://cec.sonus.ca/econtact/14_2/vermeulen_emosynth.html.
- Vermeulen, V. (2012) The EMO-Synth, an intelligent music and image generator driven by human emotion. In : *Proceedings of the 15th Generative Art Conference GA2012*. Available from: <http://www.generativeart.com/GA2012/valery.pdf>.
- Leman, M., Vermeulen, V. et al. (2005) Prediction of Musical Affect Attribution Using a Combination of Structural Cues Extracted From Musical Audio. *Journal of New Music Research*, 34, no 1, pp. 39-67.
- Leman, M., Vermeulen, V. et al. (2004) Using audio features to model the affective response to music. In: *Proceedings of the International Symposium on Musical Acoustics (ISMA2004)*, Nara, Japan.

- Leman, M., Vermeulen, V. et al. (2004) Correlation of gestural musical audio cues and perceived expressive qualities. In: Camurri, A. & Volpe, G. (Eds.), *Gesture-based communication in human-computer interaction*. Berlin, Heidelberg: Springer-Verlag.
- Leman, M. Vermeulen, V. et al (2003) Relationships between musical audio, perceived qualities and motoric responses-a pilot study. In: *Proceedings of the Stockholm Music Acoustics Conference (SMAC 03)*, Stockholm, Sweden, pp. 40-54.

Press/Media:

- Artist interview, Radio Eins (DE) (09/05/2017)
- Interview, Mark Magazine (11/10/2017)
- Pitch on EMO-Synth project for CANVAS (National Belgian Broadcasting Agency) (23/02/2016)
- Interview and demonstration live in studio for national radio station Radio 1 during show Bar Du Matin (07/04/2014)
- Interview on EMO-Synth, national radio station Radio 1 during show De Ochtend (04/04/2014)
- Interview on EMO-Synth national radio station Radio 2 during show Middagpost (02/04/2014)
- Interview “The EMO-Synth project”, national radio station Radio Klara (27/02/2013)
- Interview “EMO-Synth”, Artefact Artmagazine, Issue # DECEMBER 2011
- Interview on “Montage Cinema Revived by the EMO-Synth”, Radio URgent fm, 01/12/2009
- EMO-Synth Prototype03 in *Bedwetters*, broadcasted on national television station KETNET, 2007
- Interview and live demonstration of EMO-synth Prototype02, broadcasted on national radio station Studio Brussels, 27/03/06

Lectures, workshops and visting lectures (selection)

- Workshop Max4Live, School of Arts Ghent – Ghent Conservatory (Ghent, BE), 2017
- Workshop Contemporary Arranging and Composition techniques for Dance and Pop Music, School of Arts Ghent – Ghent Conservatory (Ghent, BE), 2017

- Masterclass at the Research Seminar ManaMa Program on New Music, Royal Conservatory Ghent, School of Arts Ghent (Ghent, BE), 2017
- Workshop series “On use of chance and randomness for art and design”, Maastricht Academy of Media Design and Technology (MAMDT) (Maastricht, NL), 2017
- Masterclass/Artist Talk, Free University of Brussels (VUB) (Brussels, BE), 2017
- Workshop on the Sound of Numbers, AGORA Collective (Berlin, DE), 2016
- Workshop on Arranging and Composition Techniques for Electronic Music, AGORA Collective, (Berlin, DE), 2016
- Workshop on Sound Design and Synthesis for Electronic Music, AGORA Collective, (Berlin, DE), 2016
- Lecture at Generative Art event, Maastricht Academy of Media Design and Technology (MAMDT, Maastricht, NL), 2016
- Workshop Creating Music from Deep Space or Wall Street, VIVES Management (Kortrijk, BE), 2016
- Masterclass, PXL-Music (Hasselt, BE), 2016
- Workshop on Composing and Producing Electronic Music, GIP, de! Kunsthumaniora, (Cadzand, BE), 2016
- Workshop Contemporary Arranging and Composition techniques for Dance and Pop Music, School of Arts Ghent – Ghent Conservatory (Ghent, BE), 2016
- Workshop Sound Synthesis and Sound Design for Dance and Pop Music, School of Arts Ghent – Ghent Conservatory (Ghent, BE), 2016
- Masterclass and workshop on connecting data science and the arts, Maastricht Academy for Media Design and Technology (Maastricht, NL), 2016
- Artist talk and workshop on artistic uses of biofeedback, HKU (University College for the Arts Utrecht) Dep. Music & Technology (Utrecht, NL), 2016
- Artist talk, GLIMPS Festival 2015 (Ghent, BE), 2015
- Masterclass Data Sonification and Interactive Sound Synthesis, MAD Faculty (PXL Hasselt, BE), 2015
- Artist presentation at Robson Driedaagse (Enschede, NL), 2015
- Masterclass “Data sonification and algorithmic music composition”, GOGBOT Festival (Enschede, NL), 2015
- Summerschool “Biofeedback in Artistic Context, Brakke Grond and STEIM (Amsterdam, NL), 2015
- Workshop “Sound synthesis in Max4Live”, Motormusic Studios (Mechelen, BE), 2015
- Workshop “Cybernetic Sound Design”, Agora Collective (Berlin, DE), 2015
- Workshop “Interactive sound design and synthesis as innovative tool for music composition and performance”, Slingshot Festival Athens (Atlanta, US), 2015
- Workshop “Biofeedback in artistic context”, STEIM (Amsterdam, NL), 2015
- Invited speaker, TecX, Erasmus University college Brussels (Brussels, BE), 2015

- “Mathematics and Artificial Intelligence as Innovative Tools for Music Composition and Performance”, invited speaker at the Sound Studies Lectures program, Universität der Kunste (UdK, Berlin, DE), 2105
- Artist presentation, Humböldt Universität zu Berlin, (Berlin, DE), 2015
- “Krystal Ball, the financial credit crisis and I. Xenakis”, invited speaker at Cqrrrelations, Constant vzw and de Buren, (Brussels, BE), 2015
- “Biofeedback, artificial intelligence in artistic context and EMO-Synth project”, guest lecturer, MAD (Media, Arts & Design) – Faculty, (Genk, BE), 2014
- “Biofeedback in music and multimedia art”, visiting lecturer, Kunsthumaniora Antwerpen, Antwerp (BE), 2014
- “Hacking game and related controllers and sound design”, visting lecture, LABOn Tour, Kunsthumaniora Antwerpen, Antwerp (BE), 2013
- “Hacking devices and practical integration in interactive multimedia systems”, visting lecture, Sint-Lucas Academy of Visual Arts Ghent, Ghent (BE), 2012
- “The EMO-Synth Project”, iMAL , lecture at expo Tangible Feelings, Brussel, 2011
- “Affective computing and interactive multimediasystems”, visiting lecture, Hogeschool Sint-Lukas, Brussel, 2011
- “Affective Creative Systems”, Post Flux 2009, Bozar, Brussels (BE), 2009

Productions/Releases:

2012:

- *Scream*, Double Pleasure Remix, released on Housepital Records
- *Scream*, collaboration with DJ Sixty69Nine, released on Housepital Records

2009:

- *Tamuraj EMO-Synth Prototype5.1.*, digitale download, Gonzo Circus #93

2006:

- *Kakashi*, ep in collaboration with belgian producer and bass player Erik Van Biesen (Gorki, Paranoiacs, Axelle Red)

2004:

- *RMX2*, Angelo Vermeulen, Production Tamuraj, issued on (KRAAK)3 label, C047
- *Koan* demo cd

2003:

- *Droidlove* (soundtrack for “Coral Fashion Awards 2003”)
- Soundtrack for installation of Angelo Vermeulen nominated for the Provinciale Prijs voor Beeldende Kunst Oost-Vlaanderen 2003, exposition *Provinciale Prijs voor Beeldende Kunst Oost-Vlaanderen 2003*, Caermersklooster, Ghent (BE)

Prices, grants, funding and residencies

- 2015: Artist Residency, Vlaams Cultuurhuis De Brakke Grond, (Amsterdam, NL)
- 2015: Artist Residency, Liebig 12 Gallery, (Berlin, DE)
- 2013: Supported by Flemish Authorities for participation at CroArtScia2013
- 2012: Selected for artist in residence program at Marnay Art Center
- 2010: Preselection Canvas collection 2010
- 2008: Supported by the Flemish Audiovisual fund and Flanders Image for the realisation of the interactive multimedia project “Montage Cinema Revived by the EMO-Synth” (total support for the amount of 20747 €)
- 2007: Selected for artist in residence program in X=10C, Ghent (BE)
- 2005: Finalist Studio Brussels remix competition “Hang the dichter”
- 2004: Supported by the Flemish Authorities for the realisation of the interactive multimedia project SKANNER (collaboration with visual artist Angelo Vermeulen)

Scientific CV

Academic education:

1997-2001:

Phd in Pure Mathematics (Ghent University), obtained with the highest distinction
Phd topic: algebraic group theory, Kac-Moody algebra's, Tits buildings and Twin building theory.

Title of phd thesis: “Twin buildings: characterization and classification results”, (In english with dutch resume), 272 pp.

1997-2001:

Doctoral Training Program (Ghent University)

1993-1997:

Master of Mathematics (Ghent University), obtained with the highest distinction.

Title masters thesis:

Coxeter complexen en Moufang-Tits buildings, 132 pp

Scientific activities:

2005-: Senior Statistician, Zebrazone (Securex Group).

Responsible for the implementation of statistical procedures, software development and validation, design, evaluation and implementation of statistical testing, statistical modeling (e.g. Stress, motivational, satisfaction, absenteeism models).

2001-2005:

Doctor scientific researcher at the Institute for Psychoacoustics and Electronic Music (IPEM, Ghent University).

Research topic: Music and emotions.

1997-2005:

Phd student at the Department of Pure Mathematics and Computer algebra, Ghent University.

Academic teaching activities:

Teaching courses

- 1999: Exercises with course entitled *Analysis I* (1st bachelor Mathematical and Physical Sciences, Ghent University)
Exercises for course entitled *General Mathematics* (1st bachelor Geology, Ghent University)
- 1998: Exercises for course entitled *Building Theory* (1st master Pure Mathematics, Ghent University)

Thesis advisor

- 2004: Thesis advisor for *Modeling emotional responses of people on music*, Thomas Calis, Masters thesis in Civil Engineering, Promoters: Prof. Dr. Ir. J.-P Martens, Prof Dr. M. Leman, Ghent University
- 1999: Thesis advisor for *The Moufang Condition*, Heidi Wouters, Masters thesis in Pure Mathematics, Promoters: Prof. Dr. J.A. Thas, Prof. Dr. W. Mielants, Ghent University
Thesis advisor for *Introduction to Reed-Muller Codes*, Caroline Duflou, Masters thesis in Pure Mathematics, Promoters: Prof. Dr. J.A. Thas, Prof. Dr. L. Storme, Ghent University
- 1998: Thesis advisor *Affine Buildings*, Kim Cao Van, Masters thesis in Pure Mathematics Promoter:, Prof. Dr. H. Van Maldeghem, Ghent University

Conferences and lectures:

- “Kickoff Meeting”, S2S (Sound to Sense Sense to Sound”, l'Instituto degli Innocenti Enze, Firenze, (It), 2004

- “Relationships between musical audio, perceived qualities and motoric responses -a pilot study”, *The 5th International Workshop on Gesture and Sign Language based Human-Computer Interaction*, InfoMus, Lab DIST, University of Genova and Teatro dell'Opera Carlo Felice, Genua (It), 2003
- “Non embeddable foundations of type B2 tilda”, Universiteit Gent, *Moufang and Twin Buildings*, organized by Prof. Dr. H. Van Maldeghem, 1999
- “Twin Buildings”, *Seminar on Incidence Geometrie*, Universiteit Gent, organized by Prof. Dr. H. Van Maldeghem, 1999
- “Moufang to twin”; *Groups and Geometries*, Bowling Green State University, organized by Prof. Dr. Curtis Bennett, 1999
- *Groups of finite Morley Rank*, Anogia Academic Village, Crete, organized by Prof. S. Padapopoulou, 1998
- Lezingenreeks *Permutatiegroepen*, Prof. Dr. F. Buekenhout(ULB), Prof. Dr. F. Bingen (ULB), Prof. Dr. H. Van Maldeghem (UG), ULB, 1998
- *Twente Conference on Lie Groups*, University of Twente Applied Mathematics, organized by DR. G. F. Helminck, 1997

Workshops en courses:

- “Permutatiegroups”, Prof. Dr. F. Bingen, Prof. Dr. H. Van Maldeghem, Ghent University, Université Libre de Bruxelles (ULB), 1999
- “Commutative algebra”, Prof. Dr. J. Van Geel, Ghent University, 1998
- “Immeubles jumelés: théormèmes d’existence; groupes exotiques et cohomologie galoisienne”, Prof. Dr. J. Tits, Collège de France, Paris, 1997

Publications in pure mathematics:

- Vermeulen, V. (2001) Moufang Buildings and Twin Buildings. *Beiträge zur Algebra und Geometrie*, vol 42, pp. 341-357.