

DR. VADIM V. ZAYTSEV

Curriculum Vitae

November 2023

Current address

Dynamically updated portfolio counterpart:

<http://grammarware.net/lives>

Dr. Vadim Zaytsev Universiteit Twente ZI3012, Zilverling Drienerlolaan 5 7522 NB Enschede The Netherlands
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<http://grammarware.net> (academic)
<http://grammarware.github.io> (projects)
vadim@grammarware.net (email)
+32 484 27 40 42 (mobile)
+31 534 89 32 89 (work)
[@grammarware](#) (twitter)

Better known as @grammarware, I am an Associate Professor of software evolution at the University of Twente, and a Programme Director for its Computer Science programmes (BSc and MSc). I have a PhD, two cum laude MSc degrees and one BSc. I am working in software analysis, modelling and restructuring since 2004; before that I was a bytecode hacker and a railway engineer. My past affiliations include two Belgian industrial compiler companies, three Dutch academic research places, one German one, one Russian one and a few startups, as well as volunteer participation in Wikimedia activities. My research interests gravitate towards elicitation of structure in software and improving it by taking advantage of whatever structure is present. My current day to day activities involve developing compilers, writing metaprograms, analysing migration projects and disseminating industrial advancements at academic conferences and vice versa.

Skill selection

A man who can speak two languages is worth two men.
(Napoleon Hill)

Scientific research

Evidence: MSc cum laude degrees [13, 15], PhD degree [11], academic publishing history (see complete list of publications below on pp. 5–18), best paper award at SCAM 2009 [69] and DeBT 2003, best reviewer award at SCAM 2016 and SCAM 2018, best artefact award at ICSME 2016 [105] and ICSME 2022 [23].

Academic writing

Evidence: a number of papers written *solo* for peer-reviewed international workshops [33, 42, 49, 55, 56, 61–64, 83, 91, 92, 97, 99, 100, 102, 104, 111], seminars [31, 37, 112, 113, 124], symposia [46, 53, 65, 110, 118], summer schools [68, 134, 136], conferences [27, 32, 34, 36, 58, 59, 123] and journals [2, 4, 6–9, 17, 18]; co-authored many more (full publication list included below).

Project supervision

Evidence: supervised Master students who successfully defended their theses [165, 185–187, 196–220, 222–230] and presented at SATToSE'14 (Ammar Hamid), SATToSE'15 (Carlos U. Cirello F., Boryana Goncharenko), SATToSE'16 (Nico de Groot, Gorjan Jovanovski [107]), BENEVOL'19 (Céline Deknop et al), BENEVOL'22 (Marnick van der Arend) SATToSE'23 (Daniël Floor [78]), LangDev'23 (Lola Solovyeva), BENEVOL'23 (Lola Solovyeva [77], Ömer Sayilir); supervised Bachelor students [166–183, 188–195, 221] who presented their work at a national Student Research Conference [109, 147] and Twente Student Conferences on IT, with best paper awards [171, 191, 194] and best paper nominations [190, 195].

Public presentation

Evidence: presented (co)authored work at SATToSE'23, EduSymp'22, HuFaMo'22, SCAM'22, MeSS'22, and 63 other conferences and workshops; gave a tutorial at MoDELS'13; was an invited speaker at SIESTA'23, MODELWARD'23, PRiML'20, BENEVOL'19, MLE'19, SATToSE'18, SPLASH-F'17, ICSME'16, HDSA'15, WLE'14, EFD'14, CWI SM'13, RedDevCon'13, IPA SpringDays'12, SLaC&M'12, SL(E)BoK'12, MRAD'04.

Community management

Evidence: active official participation in organising events such as STAF'15–'16/'24, GTTSE'09–'15, SATToSE'12–'17, WLE'14, WCRE'13, MoDELS'13/'17/'18/'23, SoTeSoLa'12, PEM'12–'13, WCN'11–'12, SLE'11/'16, SLEBoK'18; distinguishing awards for active participation at GTTSE'09, WCRE'13 and SATToSE'17; co-founding and co-organising

OOPSLE [5, 87, 115, 117, 120], MMMDE [148], SLEBoK workshops, a coding dojo (CoCoDo'16–'21), a Dagstuhl seminar (#18491) [137], several Wikia wikis (2006–'23) and a Fidonet echoconference (1997–2002); chairing PCs/AECs at BX'22, SCAM'21, OOPSLE'20, ICPC'20, MoDELS'18, MoDELS'17, SLE'16, SATToSE'14, WCRE'13, WCN'12, WCN'11. Frequently chairing sessions at conferences, moderating discussions, put in charge of organising hackathons. A member of the Steering Committee of SATToSE. The chair of the Steering Committee of SCAM in 2020–2023. Editor in Chief of the SLEBoK initiative. Programme Director of BSc Technical Computer Science and MSc Computer Science since 2021.

Languages

Fluent in Russian, English, Dutch, some light familiarity with French, German, Latin, Japanese. Evidence for Russian: native language, several awards for writing contests, substantial contributions to Wikipedia (<http://grammarware.github.io/wiki>) and several other wiki-sites. Evidence for English: UTwente attest at **C2** in 2020, professional collaboration since 1999, editorial work [137–141], lecturing since 2004, list of publications. Evidence for Dutch: professional collaboration since 2005, supervised students since 2005, editorial work [142–144]. Evidence for German: TestDaF TDN 5/4/3/3 certificate from 2010.

Programming

Evidence: several thousands commits to various repositories on GitHub (@grammarware), BitBucket (@grammarware) and SourceForge (@sspider). Most actively used programming languages recently: C#, RcScript, Rascal and Python. Due to extensive language documentation research and personal curiosity, at least marginally familiar with almost all programming languages, markup languages, metalanguages, transformation languages, modelling languages and data description languages, a number of them with practical experience (detailed information and certificates available on demand). Published peer reviewed papers concerning languages such as AppBuilder [32, 34, 92], Assembler [2, 41, 90, 102], C [19], C++ [52], C# [34, 41, 136], COBOL [19, 23, 25, 26, 85, 89, 93], CSS [38, 40, 43, 105, 107], EBNF [64, 65, 128, 130], Haskell [119], JavaScript [43, 71, 106], Java [10, 28, 66, 69, 93, 131], JSON [37, 112], Magnolia [101], Matlab [72], MegaL [51, 55, 60, 62, 63, 121, 125, 126], PACBASE [23, 25, 26, 85, 89], PHP [22], Prolog [53, 70, 131], Python [3, 24, 40, 73, 77], Rascal [35, 42, 47, 57, 59, 64, 97, 113, 123], Ruby [52], Rust [101], Scheme [52], SQL [23], UML [1], XBGF [4, 6–9, 49, 68, 118, 129, 134], XSLT [42, 113], developed own languages [27, 34, 83, 92].

Qualifications

Dynamically updated portfolio counterpart:

<http://grammarware.net/works#education>

Universiteit Twente, The Netherlands,

SKE/SUEQ, *Senior University Examination Qualification*, August 2021–January 2023.

Department: Formal Methods and Tools, Faculty of Electrical Engineering, Mathematics and Computer Science.

Supervisors: Helma Vlas (NL), Leonie Chapel (NL).

Assessors: Frank van den Berg (UT), Marleen de Haan (UT), Cornelise Vreman – de Olde (UT), Barbara Allart (VU).

Universiteit van Amsterdam, The Netherlands,

BKO/UTQ, *University Teaching Qualification*, April–July 2014.

Department: Institute for Informatics, Faculty of Science.

Supervisors: Vivianne Tolen (NL), Christianne Vink (NL).

Vrije Universiteit Amsterdam, The Netherlands,

PhD, *Recovery, Convergence and Documentation of Languages*, October 2010.

Department: Information Management and Software Engineering.

Supervisors: Prof. Dr. Ralf Lämmel (DE), Prof. Dr. Chris Verhoef (NL).

Committee: Prof. Dr. Jean Bézivin (FR), Dr. Jean-Marie Favre (FR), Prof. Dr. Willem Jan Fokkink (NL), Prof. Dr. Paul Klint (NL), Dr. Steven Klusener (NL).

Universiteit Twente, The Netherlands,

MSc, *Combinatorial Test Set Generation: Concepts, Implementation, Case Study*, June 2004.

Programme: Telematics, *cum laude*.

Supervisors: Prof. Dr. Ed Brinksma (NL), Dr. Ralf Lämmel (NL).

Rostov State University (Southern Federal University), Russia,

MSc, *Modelling and Model Checking of Distributed Systems*, June 2003.

Programme: Applied Mathematics, *cum laude*.

Supervisor: Dr. Alexander Litvinenko (RU).

Rostov State University (Southern Federal University), Russia,
BSc, *Python Programming Language E-Learning Complex*, July 2002.
 Programme: Mathematics (no honours assigned in Russia at Bachelor's level).
 Supervisor: Dr. Alexander Litvinenko (RU).

Work experience

Dynamically updated portfolio counterpart:

<http://grammarware.net/works#employment>

Raincode Labs (Belgium),

- *Chief Science Officer, analyst/developer*, **2016–2020**.

Consulting companies on their IT portfolios with legacy assets (PACBASE, CA GEN, AppBuilder, JBASIC and others), conducting investigation on technical feasibility for migration, renovation and retirement of software languages, planning, supervising and performing such projects, designing and implementing domain-specific languages tailored to clients' needs, extending existing software languages to cope with modern technologies, architecting and developing bespoke compilers, interpreters, classifiers, recommenders, IDE plugins and other software language processors.

Also maintaining relations with the academia, co-organising and sponsoring events, co-writing grant proposals, giving lectures [146] and keynotes, publishing papers on mining [28, 93, 96], classification [45], testing [31, 32, 90], parsing [34, 92, 99], migration [4, 29, 42, 94, 95, 100, 232], smells [3, 35], language design [36, 40, 97, 98, 101, 104], compiler implementation [41, 44, 102], bidirectionality [30, 39].

Raincode (Belgium),

- *Chief Science Officer, analyst/developer*, **2016–2020**.

Analysing large IT portfolios built with mainframe technologies (COBOL, PL/I, HLASM [2, 41, 90, 102], REXX, CLIST, JCL, CICS, IMS) and 4GL code generators (PACBASE, CA GEN, AppBuilder [32, 34, 100]), migrating and replatforming large codebases [29, 94, 95], writing metaprograms (YAFL, ReScript, Rascal, C[#]/Roslyn) performing measurement, analysis, refactoring and restructuring of code, developing and integrating parsers (PEG, GLL, LALR, novel techniques [34, 92]), engineering grammars (GrammarLab, DURA), testing compilers [31, 32].

Universiteit van Amsterdam (The Netherlands),

- Master of Science programme in Software Engineering, *lecturer*, **2013–2016**.

Coordinating the teaching process, teaching (under)graduate students (Haskell [119], Go, Rascal, Java, C[#], Ruby, Python, Scala, Make, git), supervising final projects of (under)graduate students (ANTLR [194, 210, 228], Assembler [197], BabyCobol [178], BibTeX [170], C [187, 225], C++ [230], C[#] [164, 166, 181, 193, 197, 211], Crawljax [214, 216, 222], CSS [213, 214, 216, 219], DURA [200], Haskell [180, 233], Java [166, 171, 174–176, 185, 190, 208–210, 215, 217, 223, 228], JavaScript [186, 205, 216, 219, 220, 222], Jenkins [222, 229], Kotlin [160, 183], Kurogo [226], PHP [173, 229], Progress [179], Python [161, 166, 167, 191, 196, 210, 221], QLS [227], Rascal [201, 202, 206, 218, 224, 230], ReScript [200], Ruby [225], Rust [168], Scala [165], Scheme [225], Whitespace [169]).

Centrum Wiskunde & Informatica (The Netherlands),

- National Research Institute for Mathematics and Computer Science (CWI),

Software Analysis and Transformation Group (SWAT), *postdoctoral researcher*, **2010–2013**.

Foundations of a grammar laboratory (Rascal, Python, XSLT, Java, Haskell, various DSLs), in particular researching topics like grammar analysis [59], grammar testing [66, 131], language conversion [9, 129, 154], grammar recovery [6, 64, 65, 128, 130], grammar transformation [7, 61, 63, 122, 123, 126, 127], grammar engineering [6, 124, 151, 234], megamodelling [60, 62, 121, 125] and parsing [58].

- National Research Institute for Mathematics and Computer Science (CWI),

Signals and Images Group (PNA4), *research trainee*, **2000**.

Software migration (C, ksh), web-enabling (DHTML, JS, Perl, CGI), data visualisation (Matlab, Maple, DHTML, JS).

Universität Koblenz-Landau (Germany),

- Software Languages Team, *scientific researcher*, **2008–2010**.

Software language engineering (Prolog, Python, Haskell, XML, XSLT, XSD, Rascal, many DSLs), in particular grammar recovery [10, 12, 133, 136], language documentation [67, 132], grammar convergence [10, 12, 68–70, 133, 134], grammar transformation [155].

Vrije Universiteit Amsterdam (The Netherlands),

- Department of Information Management and Software Engineering, *doctoral student* [11, 156], **2004–2008**.
Language parametric program restructuring (ASF, SDF, GDK, GRK, C, Smalltalk, Perl, Python, C#, COBOL) [13, 135, 136].

Rostov State Transport University (Russia),

- Department of Power Engineering, *scientific programmer*, **1999–2000** on site; remotely till **2008**.
Technical and mathematical research support (Matlab, Python, Delphi, GWBasic, QBasic, VB, JS, DHTML) [71, 72, 74–76].

Universiteit Twente (The Netherlands),

- Department of Electrical Engineering, Mathematics and Computer Science, Programme Telematica *teaching assistant*, **2003**.

Desk.nl (The Netherlands, CWI spin-off),

- prototype programming (Flash, HTML, JS), *trainee*, **2001**;
- generating presentations (XML, DHTML, JS), *trainee*, **1999**.

Teaching experience

Dynamically updated portfolio counterpart:

<http://grammarware.net/teaches>

For each course, its level, years of participation and the main coordinator are listed.

- *Design of Software Architectures* (UT, MSc, 2023, Dr. Georgiana Caltais)
- *Design of Software Architectures* (UT, MSc, 2021–2022, Dr. Vadim Zaytsev)
- *Software Evolution* (UvA, MSc, 2021–2023, Dr. Thomas van Binsbergen)
- *Software Evolution* (UT, MSc, 2020–2023, Dr. Vadim Zaytsev) [27, 91]
- *Software Systems: Design* (UT, BSc, 2020–2023, Dr. Tom van Dijk)
- *Design of Software Architectures* (UT, MSc, 2020, Robert Deckers)
- *Modern Construction of Industrial Strength Compilers* (summer school, 2019, Dr. Vadim Zaytsev) [146]
- *Software Construction* (UvA, MSc, 2018, Dr. Vadim Zaytsev)
- *Software Evolution* (UvA, MSc, 2016–2020, Dr. Riemer van Rozen)
- *Compiler Construction* (UvA, premaster, 2016, Dr. Vadim Zaytsev)
- *Software Evolution* (UvA, MSc, 2015, Dr. Vadim Zaytsev)
- *Preparation Master Project* (UvA, MSc, 2013–2016, Dr. Vadim Zaytsev)
- *Software Specification & Testing* (UvA, MSc, 2013–2015, Prof.Dr. Jan van Eijck) [119]
- *Project Software Engineering* (UvA, BSc, 2015, Dr. Vadim Zaytsev) [46]
- *Software Evolution* (UvA, MSc, 2014, Dr. Magiel Bruntink)
- *Program Refactoring* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
- *Code Complete* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
- *Data Structures and Algorithms* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
- *Compiler Construction* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
- *Webcrawler Programming in Python* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
- *Logic in Action* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev) [53]
- *Functional Programming in Haskell* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
- *Automata and Formal Languages* (UvA, BSc, 2014, Dr. Inge Bethke)
- *Project Software Engineering* (UvA, BSc, 2014, Hans L. Dekkers)
- *Term Rewriting in Ruby* (UvA, premaster, 2013, Dr. Vadim Zaytsev)
- *Advanced Programming* (UKL, BSc, 2012, Prof.Dr. Ralf Lämmel)
- *Compiler Construction* (UvA, MSc, 2012–2014, Dr. Tijs van der Storm)
- *Compiler Evolution* (UvA, MSc, 2011–2013, Dr. Jurgen Vinju)
- *Programming Paradigms and Formal Semantics* (UKL, MSc, 2009–2010, Prof.Dr. Ralf Lämmel)
- *Advanced Programming* (UKL, BSc, 2009, Prof.Dr. Ralf Lämmel)
- *Programming* (UKL, BSc, 2008, Prof.Dr. Ralf Lämmel)
- *Project ISO* (VU, BSc, 2007, Prof.Dr.ir. Jan L. Top)
- *Practical Software Engineering* (VU, BSc, 2006, Prof.Dr. Hans van Vliet)
- *Programming Languages: Smalltalk* (VU, BSc, 2005, Vadim Zaytsev)
- *Principles of OOSD* (VU, MSc, 2004, Dr. Ralf Lämmel)
- *Python Programming* (RSU, BSc, 2002, Vadim Zaytsev) [16, 73, 158]

List of publications

Dynamically updated portfolio counterpart:

<http://grammarware.net/writes>

Listed in reverse chronological order within each category. The order of co-authors is mostly determined by the *alphabet*, unless another convention is enforced by coauthors. Variations in spelling of the names are due to unavoidable bureaucratic reasons. Supervised theses are listed among other editorial works.

The list is sectioned as follows:

- ◊ **Current drafts & preprints:** items which publication status is unclear at the moment.
- ◊ **Journals & theses:** publications in peer reviewed journals, doctoral and graduate theses.
- ◊ **Conference proceedings:** publications in proper peer reviewed proceedings, post-proceedings and companions.
- ◊ **Workshops:** items in informal or self-publishing venues, extended abstracts, artefact and poster companion papers.
- ◊ **Editorial work:** proceedings volumes (co)edited by me.
- ◊ **Web publications & technical reports:** notable self-publications and not explicitly peer reviewed work.
- ◊ **Supervised theses:** successfully defended BSc, MSc and PhD theses under my (co)supervision.

Current drafts & preprints

Journals & theses

- [1] Antonio Bucchiarone, Federico Ciccozzi, Leen Lambers, Alfonso Pierantonio, Matthias Tichy, Massimo Tisi, Andreas Wortmann and Vadim Zaytsev. “What is the Future of Modelling?” In: *IEEE Software Insights (IEEE Software)* 38 (2 2021), pp. 119–127. DOI: [10.1109/MS.2020.3041522](https://doi.org/10.1109/MS.2020.3041522).
- [2] Vadim Zaytsev. “Modelling of Language Syntax and Semantics: The Case of the Assembler Compiler”. In: *Proceedings of the 16th European Conference on Modelling Foundations and Applications in the Journal of Object Technology (ECMFA@JOT)* 19 (2 July 2020). DOI: [10.5381/jot.2020.19.2.a5](https://doi.org/10.5381/jot.2020.19.2.a5). URL: http://www.jot.fm/contents/issue_2020_02/article5.html.
- [3] Nicole Vavrová and Vadim Zaytsev. “Does Python Smell Like Java?” In: *The Art, Science and Engineering of Programming (⟨Programming⟩)* 1 (2 Apr. 2017). Ed. by Cristina Videira Lopes, pp. 11-1–11-29. DOI: [10.22152/programming-journal.org/2017/1/11](https://doi.org/10.22152/programming-journal.org/2017/1/11). URL: <http://arxiv.org/abs/1703.10882>.
- [4] Vadim Zaytsev. “Cotransforming Grammars with Shared Packed Parse Forests”. In: *Electronic Communications of the European Association of Software Science and Technology (EC-EASST); Graph Computation Models — Selected Revised Papers* 73 (Apr. 2016). Ed. by Detlef Plump. ISSN: 1863-2122. DOI: [10.14279/tuj.eceasst.73.1032](https://doi.org/10.14279/tuj.eceasst.73.1032). URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/1032>.
- [5] Anya Helene Bagge and Vadim Zaytsev. “Open and Original Problems in Software Language Engineering 2015 Workshop Report”. In: *SIGSOFT Software Engineering Notes* 40 (3 May 2015), pp. 32–37. DOI: [10.1145/2757308.2757313](https://doi.org/10.1145/2757308.2757313).
- [6] Vadim Zaytsev. “Grammar Zoo: A Corpus of Experimental Grammarware”. In: *Fifth Special issue on Experimental Software and Toolkits of Science of Computer Programming (SCP EST5)* 98 (Feb. 2015), pp. 28–51. DOI: [10.1016/j.scico.2014.07.010](https://doi.org/10.1016/j.scico.2014.07.010).
- [7] Vadim Zaytsev. “Negotiated Grammar Evolution”. In: *Special issue on Extreme Modeling of The Journal of Object Technology (JOT)* 13.3 (July 2014), 1:1–22. DOI: [10.5381/jot.2014.13.3.a1](https://doi.org/10.5381/jot.2014.13.3.a1).
- [8] Vadim Zaytsev. “Software Language Engineering by Intentional Rewriting”. In: *Electronic Communications of the European Association of Software Science and Technology (EC-EASST); Software Quality and Maintainability* 65 (Mar. 2014). ISSN: 1863-2122. DOI: [10.14279/tuj.eceasst.0.903](https://doi.org/10.14279/tuj.eceasst.0.903). URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/903>.
- [9] Vadim Zaytsev. “Language Evolution, Metasyntactically”. In: *Electronic Communications of the European Association of Software Science and Technology (EC-EASST); Bidirectional Transformations* 49 (2012). ISSN: 1863-2122. DOI: [10.14279/tuj.eceasst.49.708](https://doi.org/10.14279/tuj.eceasst.49.708). URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/708>.
- [10] Ralf Lämmel and Vadim Zaytsev. “Recovering Grammar Relationships for the Java Language Specification”. In: *Software Quality Journal (SQJ); Section on Source Code Analysis and Manipulation* 19.2 (Mar. 2011), pp. 333–378. ISSN: 0963-9314. DOI: [10.1007/s11219-010-9116-5](https://doi.org/10.1007/s11219-010-9116-5).
- [11] Vadim Zaytsev. “Recovery, Convergence and Documentation of Languages”. PhD thesis. Amsterdam, The Netherlands: Vrije Universiteit, Oct. 2010.

- [12] Ralf Lämmel and Vadim Zaytsev. “Reverse Engineering Grammar Relationships”. In: *Softwaretechnik-Trends; Bericht und Beiträge des gemeinsamen Workshops Software-Reengineering und Design for Future 30.2* (May 2010). Extended abstract, 2 pages. ISSN: 0720-8928.
- [13] Vadim Zaytsev. “Combinatorial Test Set Generation: Concepts, Implementation, Case Study”. Master’s thesis. Enschede, The Netherlands: Universiteit Twente, June 2004.
- [14] Alexander Agranovsky, Vadim Zaytsev, Boris Telesnin and Roman Hady. “Program Verification using Models”. In: *Open Systems* 12.1–2 (Dec. 2003). In Russian, pp. 45–47. URL: <http://www.osp.ru/os/2003/12/183691/>.
- [15] Vadim Zaytsev. “Modelling and Model Checking of Distributed Systems”. In Russian. Master’s thesis. Rostov-on-Don, Russia: Rostov State University, June 2003.
- [16] Vadim Zaytsev. “Python Programming Language E-Learning Complex”. In Russian. Bachelor’s thesis. Rostov-on-Don, Russia: Rostov State University, June 2002.
- [17] Vadim Zaytsev. “Golden Java: History and Geography”. In: *Xakep Special Issue* 02 (Feb. 2000). In Russian. An overview of Java/JavaScript programming language family, pp. 56–59.
- [18] Vadim Zaytsev. “Trojan Horses. Classification”. In: *Xakep Journal* 01.13 (Jan. 2000). In Russian. An overview of trojan-class malware, pp. 62–64.

Conference proceedings & post-proceedings

- [19] Mart van Assen, Aimé Ntagengerwa, Ömer Sayilir and Vadim Zaytsev. “Crossover: Towards Compiler-Enabled COBOL-C Interoperability”. In: *Proceedings of the 22nd International Conference on Generative Programming: Concepts and Experience (GPCE)*. Ed. by Coen De Roover, Bernhard Rumpe and Amir Shaikhha. 2023, pp. 72–85. DOI: [10.1145/3624007.3624055](https://doi.org/10.1145/3624007.3624055).
- [20] Arthur Rump and Vadim Zaytsev. “A Refined Model of Ill-definedness in Project-Based Learning”. In: *MoDELS’22 Companion Proceedings: Educators Symposium of the 25th International Conference on Model Driven Engineering Languages and Systems (EduSymp)*. Ed. by Thomas Kühn, Vasco Sousa, Olivier Barais and Peter J. Clarke. 2022, pp. 115–122. DOI: [10.1145/3550356.3556505](https://doi.org/10.1145/3550356.3556505).
- [21] Sophie Lathouwers and Vadim Zaytsev. “Modelling Program Verification Tools for Software Engineers”. In: *Proceedings of the 25th International Conference on Model Driven Engineering Languages and Systems (MoDELS)*. Ed. by Eugene Syriani, Houari Sahraoui and Nelly Bencomo. ACM, 2022, pp. 98–108. DOI: [10.1145/3550355.3552426](https://doi.org/10.1145/3550355.3552426).
- [22] Wouter van den Brink, Marcus Gerhold and Vadim Zaytsev. “Deriving Modernity Signatures for PHP Systems with Static Analysis”. In: *Proceedings of the 22nd IEEE International Working Conference on Source Code Analysis and Manipulation (New Ideas and Emerging Results Track) (SCAM)*. Ed. by Mariano Ceccato, Banani Roy and Mohammad Ghafari. 2022, pp. 181–185. DOI: [10.1109/SCAM55253.2022.00027](https://doi.org/10.1109/SCAM55253.2022.00027).
- [23] Céline Deknop, Johan Fabry, Kim Mens and Vadim Zaytsev. “Generating Customised Control-Flow Graphs for Legacy Languages with Semi-Parsing”. In: *Proceedings of the 38th IEEE International Conference on Software Maintenance and Evolution (ICSME)*. Ed. by Rainer Koschke, George Papadopoulos, Andrea Capiluppi and Shi Han. Best Artefact Award. 2022. DOI: [10.1109/ICSME55016.2022.00072](https://doi.org/10.1109/ICSME55016.2022.00072).
- [24] Aamir Farooq and Vadim Zaytsev. “There Is More Than One Way to Zen Your Python”. In: *Proceedings of the 14th International Conference on Software Language Engineering (SLE)*. Ed. by Eelco Visser, Dimitris Kolovos and Emma Söderberg. ACM, 2021, pp. 68–82. DOI: [10.1145/3486608.3486909](https://doi.org/10.1145/3486608.3486909).
- [25] Céline Deknop, Kim Mens, Alexandre Bergel, Johan Fabry and Vadim Zaytsev. “A Scalable Log Differencing Visualisation Applied to COBOL Refactoring”. In: *Proceedings of the Ninth Working Conference on Software Visualization (VISSOFT)*. Ed. by Alexandru Telea, Leonel Merino and Juan Pablo Sandoval Alcocer. IEEE, 2021, pp. 1–11. DOI: [10.1109/VISSOFT52517.2021.00010](https://doi.org/10.1109/VISSOFT52517.2021.00010).
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Notable activities

Dynamically updated portfolio counterpart:

<http://grammarware.net/goes>

2024

- Editor in Chief at [SLEBoK](#).
- General Chair at STAF.
- Committee of Recommendation Member for the Hephaestus Symposium.

2023

- Steering Committee Member of SCAM (chair till October).
- Editor in Chief at [SLEBoK](#).
- Copromotor at a Belgian Doctiris project [CodeDiffNG](#) (Advanced Source Code Diffing) with Université Catholique de Louvain and Raincode Labs.
- Work Package Leader of *WP4: MBSE* at a Dutch NWO project *ZORRO: Engineering for Zero Downtime in Cyber-Physical Systems via Intelligent Diagnostics*
- Committee of Recommendation Member for the Denarius Symposium.

- Programme Committee Member at ASE, ECMFA, SATToSE, SLE, PLNL, WAPL, EduSymp, MSR, MODELSWARD.
- External reviewer at EVCS ($\times 2$), RRRR.
- Keynote speaker at MODELSWARD, SIESTA.
- Session chair at MODELSWARD, REBLS, SLE, BENEVOL.
- Working Group member at VERSEN.
- Presenter at SATToSE [79, 80].

2022

- Steering Committee Member of SCAM (chair).
- Editor in Chief at [SLEBoK](#).
- Committee of Recommendation Member for the Zephyrus Symposium.
- Copromotor at a Belgian Doctiris project [CodeDiffNG](#) (Advanced Source Code Diffing) with Université Catholique de Louvain and Raincode Labs.
- Panelist at SEN Symposium, UT Month of Education.
- Workshop Co-Chair at BX.
- Programme Committee Member at ASE, SLE, VISSOFT, ECMFA, GAS, BENEVOL, SANER, EduSymp, LangDev.
- Working Group member at VERSEN.
- Presenter at MeSS [83], SCAM [22], HuFaMo [82], EduSymp [20].
- Best Artefact Award at ICSME 2022 [23].

2021

- Editor in Chief at [SLEBoK](#).
- Steering Committee Member of SCAM (chairman since September).
- Member of IFIP TC 2 WG 2.11 on Program Generation.
- Program Co-Chair at SCAM ET.
- Co-Organiser at RCL [CoCoDo](#) (at <Programming>).
- Copromotor at a Belgian Doctiris project [CodeDiffNG](#) (Advanced Source Code Diffing) with Université Catholique de Louvain and Raincode Labs.
- Artefact Evaluation Committee Member at ICSE.
- Programme Committee Member at ICPC ERA, SANER ERA, SANER IT, ECMFA, MoDELS P&I, ADEIRA, WAPL, GPCE.
- Publicity Chair of JSS (till July).
- Invited participant at Dagstuhl Seminar 21491 ([Static Methods for Correctness of Model and Program Transformations](#)).
- Invited speaker at IPAndemic.
- Working Group member at VERSEN.
- Session Chair at SCAM and SLE.

2020

- Editor in Chief at [SLEBoK](#).
- Member of IFIP TC 2 WG 2.11 on Program Generation.
- Steering Committee Member of SCAM (1st term) and SATToSE.
- Industry Co-Chair at ICPC.
- Workshop Co-Chair of OOPSLE (at STAF, remote).
- Co-Organiser at RCL [CoCoDo](#) (at <Programming>, cancelled together with the conference).
- Industrial Principal Investigator at a Belgian Innoviris TeamUp project [INTiMALS](#) (INTElligent Modernisation Assistance for Legacy Software) with Vrije Universiteit Brussel and Université Catholique de Louvain; and at a Belgian Doctiris project [CodeDiffNG](#) (Advanced Source Code Diffing) with Université Catholique de Louvain.
- Programme Committee Member at SANER ERA, SANER IT, TechDebt, MoDELS P&I, SLE, Data4MDE, MSR FOSS, SCAM ET, GPCE, PROFES.
- Artefact Evaluation Committee Member at MoDELS.
- Invited participant at Second [Winter Modelling Meeting](#) in the Alps; IFIP WG2.11 Meeting ([Program Generation](#)); Dagstuhl Seminar 20131 ([Static Methods for Correctness of Model and Program Transformations](#), postponed); Dagstuhl Forschungsaufenthalt 20343 ([SLEBoK Recap](#)).
- Invited speaker at PRiML (remote).
- Presenter at ECMFA [2] (remote).
- Presentation co-author at SATToSE [89].

- Session Chair at MoDELS (Model Transformation), SLE.
- External reviewer at IEEE Software, IPM.

2019

- Editor in Chief at [SLEBoK](#).
- Co-Organiser at RCL [CoCoDo](#) (at <Programming>).
- Collector and report co-editor for Dagstuhl Seminar 18491 [137].
- Industrial Principal Investigator at a Belgian Innoviris TeamUp project [INTIMALS](#) (INTElligent Mod-ernisation Assistance for Legacy Software) with Vrije Universiteit Brussel and Université Catholique de Louvain [28, 96].
- Steering Committee Member at SATToSE.
- Programme Committee Member at ASE, ICMT, SANER IT, SANER ERA, ICPC NRT, SCAM ET, SLE.
- Presentation co-author at SANER [29].
- Presenter at <Programming> [96], TechDebt [95], SoHeal [94], REBLS [92].
- Keynote Speaker at MLE and BENEVOL [91].
- External reviewer at PeerJ, IET Software, SoSyM.

2018

- Editor in Chief at [SLEBoK](#).
- Industrial Principal Investigator at a Belgian Innoviris TeamUp project [INTIMALS](#) (INTElligent Mod-ernisation Assistance for Legacy Software) with Vrije Universiteit Brussel and Université Catholique de Louvain.
- Co-Organiser of a Dagstuhl Seminar 18491 ([Multidirectional Transformations and Synchronisations](#)).
- Organiser at RCL [CoCoDo](#) (at <Programming>).
- Keynote Speaker at SATToSE.
- Workshop co-chair at SLEBoK (at SPLASH).
- Artefact Evaluation Co-Chair at MoDELS.
- Steering Committee Member at SATToSE.
- Distinguished Reviewer Award at SCAM.
- Programme Committee Member at SCAM, SANER ERA, ASE Tool Demos, SLE.
- Speaker at LangDevCon.
- Session Chair at MoDELS (Foundations).
- External reviewer at COMLAN, JSS, SLE.

2017

- Editor in Chief at [SLEBoK](#).
- Artefact Evaluation Co-Chair at MoDELS.
- Programme Committee Member at SANER ERA, SCAM, SATToSE.
- Steering Committee Member at SATToSE.
- Volume co-editor for Springer LNCS [138].
- Organiser at RCL [CoCoDo](#) (at <Programming>).
- Session Chair at SPLASH-I (Software Engineering & Education).
- Invited presenter at SPLASH-I, CHOOSE Forum.
- External reviewer for EMSE, SCP.
- Presenter at MoreVMs [102], IWACO [101], PLATEAU [98], NOOL [97], Parsing@SLE [99], PX/17.2 [232], CoCoS [33], <Programming> [3], SLE [35], GPCE [34].
- Poster presenter at SPLASH (×2).
- Invited participant at IFIP WG 2.11 ([Program Generation](#)), Dagstuhl Seminar 17342 ([SLEBoK](#)).

2016

- PhD evaluation committee member of Jan Kurš (at Bern).
- Steering Committee Member at SATToSE.
- Artefact Evaluation Co-Chair at SLE.
- Program Committee Member at BX, SCAM, ITSLE, SATToSE, FlexMDE, PAME.
- Best/Distinguished Reviewer Award at SCAM.
- Best Artefact Award at ICSME.
- Social Media Co-Chair at STAF, SATToSE.
- Session Chair at SATToSE.
- Workshop Co-Chair of OOPSLE (at SANER).
- Poster co-author at SANER, SLE.

- External reviewer for JSME (SCAM), ComLan, SCP.
- Invited participant at NII Shonan Meeting 091 ([Bidirectional Transformations](#)).
- Keynote speaker at ICSME Industry Track.
- Presenter at SANER ERA [45], ICSME [105], DSLDI [104], META [42].
- Presentation co-author at ICSME×2 [43, 106], SLE×2 [40, 41].

2015

- PhD evaluation committee member of Andrew Stevenson (at Queen's).
- Steering Committee Member at SATToSE.
- Program Committee Member at SANER ERA, SQM, SCAM, SLE, SATToSE (×2), ICSME ERA, GTTSE, FlexMDE.
- Judging Committee Member at WLM-az.
- Social Media Chair and Publicity Chair at STAF and GTTSE.
- Workshop Co-Chair of OOPSLE [5] (at SANER) and MMMDE [148] (at MoDELS).
- Session Chair at SANER, SATToSE, GTTSE, IFL.
- Volume co-editor for CEUR [108].
- Invited speaker at Hackers & Designers Summer Academy [104].
- External reviewer for JSS, ComLan (×3), SANER.
- Presenter at FlexMDE [47], EduSymp [46], MULTI [48], IFL [110], PAME [111], GCM [49], SATToSE [112, 113], SATToSE Hackathon [149].
- Presentation co-author at SRC [109].
- Member of VERSEN (ongoing).

2014

- Steering Committee Member at SATToSE.
- Program Committee Member at CSMR-WCRE ERA, SQM, SCAM, DADA, XM.
- Judging Committee Member at WLE-az.
- Program Chair at SATToSE.
- Proceedings editor for SATToSE [140] and co-editor for SATToSE [139].
- Workshop Co-Chair of OOPSLE [117] (at CSMR-WCRE).
- Session Chair at CSMR-WCRE, WCN.
- Working Group Member at WLE-nl.
- Invited speaker at EFD.
- External reviewer for ComLan.
- Presenter at NLFP, SQM [8], CSMR-WCRE ERA [58], Joy of Coding, TFPIE [119], TFP [118], WLE, GEMOC [55], ME [56], EduSymp [53], MoDELS [57].
- Co-author of papers presented at Parsing@SLE [116], EduSymp [54].
- Poster presenter at CSMR-WCRE [58], SEN (×2).

2013

- Steering Committee Member at SATToSE.
- Program Committee Member at SQM, SCAM, XM.
- Judging Committee Member at ACM SRC, WLM-az.
- Track Co-Chair at WCRE (Tool Demos).
- Hackathon Chair at SATToSE, OpenDataDay.
- Colloquium organiser of PEM at CWI.
- Social Media Co-Chair at MoDELS.
- Distinguished Tweeting Award at WCRE.
- External reviewer for SCP (×3: EST5, SLE12, LAFOUS), EMSE, SoSyM.
- Invited speaker at RedDevCon.
- Session Chair at OHM, WCRE, WCN.
- Workshop Co-Chair of OOPSLE [120] (at WCRE).
- Hackathon participant at WMH, WCRE.
- Tutorial presenter at MoDELS.
- Presenter at SATToSE [124], SATToSE TS, XM [122], SLE [59].
- Co-author of a paper presented at XM [121].
- Poster presenter at SLE [123].

2012

- Program Committee Member at LDTA, SCAM, SQM, WCN.

- Program Chair at WCN.
- Proceedings editor for WCN [142, 143].
- External reviewer for IET Software, SCP ($\times 2$: regular, LDTA08/09), EMSE.
- Social Media Chair at SoTeSoLa.
- Hackathon Lead Coordinator at SoTeSoLa.
- Hackathon participant at WNH.
- Session Chair at WCN.
- Colloquium organiser of PEM at CWI.
- Co-reviewer for WCRE.
- Invited speaker at IPA Spring Days, SLAC&M, SL(E)BOK.
- Presenter at CWI SM, BX [129], SAC/PL [65], LDTA [128], SATTtoSE, SoTeSoLa TS, SFD, XM [126], MPM [125], WNH.
- Poster presenter at CWI Lectures ($\times 3$), MPM [125].

2011

- Program Committee Member at SCAM, WCN.
- Partial Scholarship at Wikimania.
- Publicity Chair at GTTSE.
- Publicity Co-Chair at SLE.
- Program Chair at WCN.
- Proceedings editor for WCN [144].
- Session Chair at WCN.
- Co-reviewer for LOPSTR, ESEC/FSE TDT.
- Presenter at SLE [131], Wikimania [154].

2010

- PhD degree at Vrije Universiteit Amsterdam [11].
- Program Committee Member at DYLA, SCAM.
- Triple System Operator at Wikia.
- Co-reviewer for CSMR, ECMFA, ICPC, MoDELS.
- Presenter at WSR [12], SLE [132].

2009

- Best Paper Award at SCAM [69].
- Web/Wiki Administrator at GTTSE.
- Most Active Participant of GTTSE.
- Co-reviewer for SAC/PL, CSMR, ICSTW, ICPC, ECMDA, TOOLS, DSL, SCAM, MoDELS.
- Presenter at IFM [70], GTTSE [134], SCAM [69].
- Poster presenter at I4CS, GTTSE.

2008

- Progressive Encyclopedist at Wikipedia.
- Prize Place at IX Yandex Cup (National Web Search Contest).
- Co-reviewer for MoDELS, STSM.
- Guest reviewer for TSE/SLE, SCP/LDTA.

2007

- Double System Operator at Wikia.
- Guru Level Contributor at Wikidot.
- Co-reviewer for ICPC, ATEM, SERP, ESEC/FSE.

2006

- System Operator at Wikia.
- Programming Contest Jury at ImagineCup.
- Co-presenter at RCM [71].

2005

- Co-reviewer for CSMR, WCRE.
- Presenter at GTTSE [136].

2004

- Dutch University Diploma *cum laude*, second MSc [13].

- Co-reviewer for ICSM.
- Co-presenter at MRAD.

2003

- Best Paper Award at DeBT mini-conference.
- Best Presentation Award at DeBT mini-conference.
- Russian University Diploma *cum laude*, MSc [15].
- Presenter at DeBT.

2002

- Python On-line Learning Complex (the first in Russian) [158]
- Russian University Diploma, BSc [16].

2000

- Founder and Moderator of ru.programming.languages newsgroup.
- Jury at a Regional Web Search Contest.
- Prize Place at a Student Scientific Conference.

1999 • Jury at a Regional Science Contest.

1998

- Secondary School Certificate with Honours.
- Runner-up at a District Programming Contest.
- Prize Place at a Regional Young Researchers Conference.
- CoModerator and Primary Gardener of ru.hacker community.

1997 • Prize Place at a Regional Young Researchers Conference.

1989–1997 • School Certificates of Excellent Work, each year.

Other conference activity

Dynamically updated portfolio counterpart:

<http://grammarware.net/talks>

Invited/colloquium presentations/lectures:

- *DEUS VULT: Holy Wars of Computer Science* (UT Week of Education lecture, 2021)
- *10 Languages in 10 Years* (UT FMT Colloquium, 2019)
- *Blind Men and a Room Full of Elephants* [91] (BENEVOL keynote, 2019) — cf. [27]
- *Modelling Syntax, Semantics and Pragmatics in Practice* (MLE keynote, 2019)
- *The Secret Evolution of Bad Languages* (SATToSE keynote, 2018)
- *Daring to Do Projects Others Do Not Dare to Dream* (CHOOSE Forum, 2017) — delivered by Darius Blasband
- *DYOL: Design a Language, Know the Consequences* (SPLASH-I, 2017) — cf. [36]
- *Two Sides of Grammarware Engineering* (ICSME Industry Track keynote, 2016)
- *You've Redecorated! I Don't Like It* (Raincode, 2015)
- *Grammar Manipulation in a Broad Sense* (Queen's University, 2015)
- *Language Design* (Hackers&Designers Summer Academy, 2015) — cf. [104]
- *Linguistic History of Software Engineering* (UvA Computational Science colloquium, 2014)
- *From Compilers to Grammarware* (Universität Paderborn, 2014)
- *Flipped Education* (Education Freedom Day keynote, 2014) — cf. [46]
- *Modelling Software Structures with GrammarLab* (MoDELS tutorial, 2013)
- *A Snappy Introduction to Metaprogramming in Rascal* (RedDevCon, 2013)
- *Subatomic Scientific Knowledge Objects* (SL(E)BOK, remote, 2012)
- *Programming Environment Meetings* (organisation and many talks throughout 2012)
- *Grammar Composition and Extension* (SLaC'M, 2012)
- *Maintenance and Evolution of Grammarware by Grammar Transformation* (IPA MDSE Spring Days, 2012)
- *The Life Cycle of Grammarware* (CWI Scientific Meeting, 2012)
- *Grammar Comparison Techniques* (SERG TUDelft, 2011)
- *Legacy: the Underside of Progress* (Southern Federal University, 2007)
- *Grammarware Application: Testing XML Validators* (Microsoft Academic Days 2004)
- *A .NET-based Test-Data Generator for Combinatorial Grammar- and Schema-based Testing* (VU IMSE, 2004)

Hands-on events:

- *<Programming> 2019–2020* coding dojo “CoCoDo”, co-chairing
- *<Programming> 2017–2018* coding dojo “CoCoDo”, chairing
- *MoDELS 2017–2018* artefact evaluation, co-chairing
- *Raincode Assembler Compiler*, webinar
- *SLE 2016* artefact evaluation, co-chairing
- *SATToSE 2016 Hackathon* participation, demo

- *ICSME 2016* artefact submission (×2: tool [106] + dataset [105]; the dataset won the award)
- *FlexMDE 2015* tool demo [47]
- *SATToSE 2015 Hackathon* participation, demo [149]
- *SATToSE 2015 Technology Showdown* demo [112]
- *GLAM WIKI 2015* challenge participation
- *Wikimedia Amsterdam Hackathon 2014* participation
- *Joy of Coding 2014* coding dojo “The Day of the Master”, chairing
- *WCRE 2013 Tool Demo Track* chairing
- *OHM 2013* hacker camp participation, heralding
- *SATToSE 2013 Hackathon* organisation, chairing
- *SATToSE 2013 Technology Showdown* demo of Rascal
- *Wikimedia Amsterdam Hackathon 2013* participation
- *International Open Data Day 2013* participation, Utrecht hackathon chairing
- *International Wikimedia Hackathon 2012* participation, demo
- *SoTeSoLa 2012 Hackathon* organisation, chairing, demo
- *SATToSE 2012 Technology Showdown* demo of Rascal
- *WLM 2011* participation, quantity prize
- *DYLA 2010* pair programming session
- *GTSE 2009* participation, most active prize