Dr. Vadim V. Zaytsev

Curriculum Vitae

August 2025

Current address

Dynamically updated portfolio counterpart: http://grammarware.net/lives

Dr. Vadim Zaytsev	http://grammarware.net (academic)
Universiteit Twente	http://grammarware.github.io (projects)
ZI3012, Zilverling	vadim@grammarware.net (email)
Drienerlolaan 5	+32 484 27 40 42 (mobile)
7522 NB Enschede	+31 534 89 32 89 (work)
The Netherlands	@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 [17, 19], PhD degree [15], academic publishing history (see complete list of publications below on pp. 5–22), best paper award at SCAM 2009 [85] and DeBT 2003, best reviewer award at SCAM 2016 and SCAM 2018, best artefact award at ICSME 2016 [123] and ICSME 2022 [39].

Academic writing

Evidence: a number of papers written *solo* for peer-reviewed international workshops [24, 49, 58, 65, 71, 72, 77–80, 101, 109, 110, 115, 117, 118, 120, 122, 129], seminars [47, 53, 130, 131, 142], symposia [62, 69, 81, 128, 136], summer schools [84, 152, 154], conferences [43, 48, 50, 52, 74, 75, 141] and journals [6, 8, 10–13, 21, 22]; co-authored many more (full publication list included below).

Project supervision

Evidence: supervised Master students who successfully defended their theses [193–196, 198, 202, 204, 205, 213–218, 223, 224, 244–246, 255–279, 281–289] and presented at SATToSE'14 (Ammar Hamid), SATToSE'15 (Carlos U. Cirello F., Boryana Goncharenko), SATToSE'16 (Nico de Groot, Gorjan Jovanovski [125]), BENEVOL'19 (Céline Deknop et al), BENEVOL'22 (Marnick van der Arend), SATToSE'23 (Daniël Floor [96]), LangDev'23 (Lola Solovyeva), BENEVOL'23 (Lola Solovyeva [95], Ömer Sayilir); supervised Bachelor students [186–192, 197, 199–201, 206–212, 219–222, 225–242, 247–254, 280] who presented their work at a national Student Research Conference [127, 172] and Twente Student Conferences on IT, with best paper awards [191, 230, 250, 253] and best paper nominations [190, 249, 254].

Public presentation

Evidence: presented (co)authored work at TTC'25, BENEVOL'24, MLE'24, 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, MODELSWARD'23, PRiML'20, BENEVOL'19, MLE'19, SATToSE'18, SPLASH-I'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 BENEVOL'25, 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 [9, 105, 133, 135, 138], MMMDE [173], SLEBoK workshops, a coding dojo (CoCoDo'16–'21), a Dagstuhl seminar (#18491) [159], several Wikia wikis (2006–'25) and a Fidonet echoconference (1997–2002); chairing PCs/AECs at SLE'25, ICT.OPEN'25, 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 since 2014 [159–163], lecturing since 2004, list of publications. Evidence for Dutch: professional collaboration since 2005, supervised students since 2005, editorial work since 2011 [164–166]. 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: Kotlin, C♯, 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 [48, 50, 110], Assembler [6, 57, 108, 120], C [35], C++ [68], C♯ [50, 57, 154], COBOL [32, 35, 39, 41, 42, 103, 107, 111], CSS [54, 56, 59, 123, 125], EBNF [80, 81, 146, 148], F♯ [24], Haskell [137], JavaScript [59, 87, 124], Java [14, 27, 44, 82, 85, 111, 149], JSON [29, 53, 130], Kotlin [1, 33], Magnolia [119], Matlab [88], MegaL [67, 71, 76, 78, 79, 139, 143, 144], PACBASE [39, 41, 42, 103, 107], PHP [4, 38], Prolog [69, 86, 149], Python [4, 7, 34, 40, 56, 89], Rascal [51, 58, 63, 73, 75, 80, 115, 131, 141], Ruby [68], Rust [119], Scheme [68], SQL [39], UML [2, 5], XBGF [8, 10–13, 65, 84, 136, 147, 152], XSLT [58, 131], developed own languages [24, 26, 43, 50, 101, 110].

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

University of Twente (The Netherlands),

- Formal Methods & Tools, *Associate Professor*, **since 2020**.
  Teaching (under)graduate students (BabyCobol [43], C, Java, Kotlin, Python, Rust, UML), supervising final projects of (under)graduate students (ANTLR [253], BabyCobol [237], BibTeX [229], C [246], C♯ [223, 225, 240, 252], Haskell [239, 291], Java [225, 230, 233–235, 244, 249], Kotlin [219, 242], PHP [232], Progress [238], Python [220, 225, 226, 250], Rascal [216], Rust [227], Scala [224], Whitespace [228]).
- Technical Computer Science BSc programme, *Programme Director*, **2021–2026**.
  Day-to-day running of an educational programme with an influx of 200–400, presenting at Open Days, Taster Days, Matching Days, advising the Examination Board, taking advice of the Programme Committee, chairing the Module Board, the Industrial Advisory Board and the Twente Pathway College Academic Advisory Committee, updating and revising the curriculum, carrying out final decisions on BSA.
- Computer Science MSc programme, *Programme Director*, **2021–2026**.
  Day-to-day running of an educational programme with an influx of 70–80, presenting at Open Days, advising the Examination Board, taking advice of the Programme Committee, coordinating specialisation mentors, carrying out final decisions on starting and terminating courses and specialisations.
- Telematics MSc programme, *teaching assistant*, **2003**.
  Giving lectures on a refresher course on Java, giving out assignments, supervising their execution and grading results.

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 tailed 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 [171] and keynotes, publishing papers on mining [44, 111, 114], classification [61], testing [47, 48, 108], parsing [50, 110, 117], migration [8, 45, 58, 112, 113, 118, 292], smells [7, 51], language design [52, 56, 115, 116, 119, 122], compiler implementation [57, 60, 120], bidirectionality [46, 55].

Raincode (Belgium),

- *Chief Science Officer, analyst/developer*, **2016–2020**.
  Analysing large IT portfolios built with mainframe technologies (COBOL, PL/I, HLASM [6, 57, 108, 120], REXX, CLIST, JCL, CICS, IMS) and 4GL code generators (PACBASE, CA GEN, AppBuilder [48, 50, 118]), migrating and replatforming large codebases [45, 112, 113], writing metaprograms (YAFL, RcScript, Rascal, C♯/Roslyn) performing measurement, analysis, refactoring and restructuring of code, developing and integrating parsers (PEG, GLL, LALR, novel techniques [50, 110]), engineering grammars (GrammarLab, DURA), testing compilers [47, 48].

Universiteit van Amsterdam (The Netherlands),

- Master of Science programme in Software Engineering, *lecturer*, **2013–2016**.
  Coordinating the teaching and graduation process, teaching (under)graduate students (Haskell [137], Rascal,

Java, C♯, Ruby, Python, Scala), supervising final projects of (under)graduate students (ANTLR [269, 287], Assembler [256], C [284], C++ [289], C♯ [256, 270], Crawljax [273, 275, 281], CSS [272, 273, 275, 278], DURA [259], Java [267–269, 274, 276, 282, 287], JavaScript [245, 264, 275, 278, 279, 281], Jenkins [281, 288], Kurogo [285], PHP [288], Python [255, 269, 280], QLs [286], Rascal [260, 261, 265, 277, 283, 289], RcScript [259], Ruby [284], Scheme [284]).

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 [75], grammar testing [82, 149], language conversion [13, 147, 179], grammar recovery [10, 80, 81, 146, 148], grammar transformation [11, 77, 79, 140, 141, 144, 145], grammar engineering [10, 142, 176, 293], megamodelling [76, 78, 139, 143] and parsing [74].
- 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 [14, 16, 151, 154], language documentation [83, 150], grammar convergence [14, 16, 84–86, 151, 152], grammar transformation [180].

Vrije Universiteit Amsterdam (The Netherlands),

- Department of Information Management and Software Engineering,
  doctoral student [15, 181], **2004–2008**.
  Language parametric program restructuring (ASF, SDF, GDK, GRK, C, Smalltalk, Perl, Python, C♯, COBOL) [17, 153, 154].

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) [87, 88, 90–92].

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.

- Functional Programming
  - *Functional Programming in Haskell* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
  - *Logic in Action* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev) [69]
  - *Programming Paradigms and Formal Semantics* (UKL, MSc, 2009–2010, Prof.Dr. Ralf Lämmel)
  - *Software Specification & Testing* (UvA, MSc, 2013–2015, Prof.Dr. Jan van Eijck) [137]
- Object-Oriented Programming
  - *Advanced Programming* (UKL, BSc, 2009–2012, Prof.Dr. Ralf Lämmel)
  - *Principles of OOSD* (VU, MSc, 2004, Dr. Ralf Lämmel)
  - *Programming Languages: Smalltalk* (VU, BSc, 2005, Vadim Zaytsev)
  - *Programming* (UKL, BSc, 2008, Prof.Dr. Ralf Lämmel)
  - *Python Programming* (RSU, BSc, 2002, Vadim Zaytsev) [20, 89, 183]
  - *Software Systems: Design and Modelling* (UT, BSc, 2025, Dr. Fernando Castor)

- ◇ *Software Systems: Design* (UT, BSc, 2020–2024, Dr. Tom van Dijk)
- ◇ *Webcrawler Programming in Python* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)

- Software Architecture
  - ◇ *Design of Software Architectures* (UT, MSc, 2020, Robert Deckers)
  - ◇ *Design of Software Architectures* (UT, MSc, 2021–2022, Dr. Vadim Zaytsev)
  - ◇ *Design of Software Architectures* (UT, MSc, 2023, Dr. Georgiana Caltais)
- Software Evolution and Maintenance
  - ◇ *Code Complete* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
  - ◇ *Program Refactoring* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
  - ◇ *Software Construction* (UvA, MSc, 2012–2014, Dr. Tijs van der Storm)
  - ◇ *Software Construction* (UvA, MSc, 2018, Dr. Vadim Zaytsev)
  - ◇ *Software Evolution* (UT, MSc, 2020–2025, Dr. Vadim Zaytsev) [43, 109]
  - ◇ *Software Evolution* (UvA, MSc, 2011–2013, Dr. Jurgen Vinju)
  - ◇ *Software Evolution* (UvA, MSc, 2014, Dr. Magiel Bruntink)
  - ◇ *Software Evolution* (UvA, MSc, 2015, Dr. Vadim Zaytsev)
  - ◇ *Software Evolution* (UvA, MSc, 2016–2020, Dr. Riemer van Rozen)
  - ◇ *Software Evolution* (UvA, MSc, 2021–2023, Dr. Thomas van Binsbergen)
- Programming Language Fundamentals
  - ◇ *Automata and Formal Languages* (UvA, BSc, 2014, Dr. Inge Bethke)
  - ◇ *Compiler Construction* (UT, BSc, 2024, Dr. Arnd Hartmanns)
  - ◇ *Compiler Construction* (UvA, premaster, 2013–2016, Dr. Vadim Zaytsev)
  - ◇ *Data Structures and Algorithms* (UvA, premaster, 2013–2015, Dr. Vadim Zaytsev)
  - ◇ *Modern Construction of Industrial Strength Compilers* (CSR/PSY summer school, 2019, Dr. Vadim Zaytsev) [171]
  - ◇ *Term Rewriting in Ruby* (UvA, premaster, 2013, Dr. Vadim Zaytsev)
- Projects
  - ◇ *Design Project* (UT, BSc, 2021–2025, Dr. Rom Langerak)
  - ◇ *Practical Software Engineering* (VU, BSc, 2006, Prof.Dr. Hans van Vliet)
  - ◇ *Project ISO* (VU, BSc, 2007, Prof.Dr.ir. Jan L. Top)
  - ◇ *Project Software Engineering* (UvA, BSc, 2014, Hans L. Dekkers)
  - ◇ *Project Software Engineering* (UvA, BSc, 2015, Dr. Vadim Zaytsev) [62]
  - ◇ *Research Project* (UT, BSc, 2020–2025, Dr. Yanqiu Huang & Dr. Alessandro Chiumento) [3, 4, 38, 40, 94, 97]
- Academic Skills
  - ◇ *Preparation Master Project* (UvA, MSc, 2013–2016, Dr. Vadim Zaytsev)

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

[1] Mohammad Mehdi Afkhami, Iman Hemati Moghadam, Vadim Zaytsev, Mohammad Hossein Ashoori and Hossein Bazmandegan. "Refactoring Detection Across Languages: Leveraging Java-Trained Models for Detecting Class-Level Refactorings in Kotlin". In: *Proceedings of the 51st Euromicro Conference on Software Engineering and Advanced Applications, Data and AI Driven Engineering Track (SEAA/DAIDE)*. Vol. 16081. In print. 2025. DOI: 10.1007/978-3-032-04190-6_4.

Journals & theses

[2] Mattia Fumagalli, Tiago Prince Sales, Pedro Paulo Favato Barcelos, Giovanni Micale, Philipp-Lorenz Glaser, Dominik Bork, Vadim Zaytsev, Diego Calvanese and Giancarlo Guizzardi. "Mining Frequent Structures in Conceptual Models". In: *Software and Systems Modelling (SoSyM)* (2025). DOI: 10.1007/s10270-025-01295-0.

[3] Sophie Lathouwers, Yujie Liu and Vadim Zaytsev. "Extract, Model, Refine: Improved Modelling of Program Verification Tools through Data Enrichment". In: *Special Issue in the Journal of Software and Systems Modeling on MoDELS 2022 (SoSyM)* (2025). ISSN: 1619-1374. DOI: 10.1007/s10270-024-01232-7.

[4] Chris Admiraal, Wouter van den Brink, Marcus Gerhold, Vadim Zaytsev and Christian Zubcu. "Deriving Modernity Signatures of Codebases with Static Analysis". In: *Special Issue in the Journal of Systems and Software: Open Science in Software Engineering Research (JSS)* 211 (May 2024). ISSN: 0164-1212. DOI: 10.1016/j.jss.2024.111973.

[5] 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.

[6] 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. URL: http://www.jot.fm/contents/issue_2020_02/article5.html.

[7] 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. URL: http://arxiv.org/abs/1703.10882.

[8] 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. URL: http://journal.ub.tu-berlin.de/eceasst/article/view/1032.

[9] 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.

[10] 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.

[11] 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.

[12] 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. URL: http://journal.ub.tu-berlin.de/eceasst/article/view/903.

[13] 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. URL: http://journal.ub.tu-berlin.de/eceasst/article/view/708.

[14] 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.

[15] Vadim Zaytsev. "Recovery, Convergence and Documentation of Languages". PhD thesis. Amsterdam, The Netherlands: Vrije Universiteit, Oct. 2010.

[16] 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.

[17] Vadim Zaytsev. "Combinatorial Test Set Generation: Concepts, Implementation, Case Study". Master's thesis. Enschede, The Netherlands: Universiteit Twente, June 2004.

[18] 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/.

[19] Vadim Zaytsev. "Modelling and Model Checking of Distributed Systems". In Russian. Master's thesis. Rostov-on-Don, Russia: Rostov State University, June 2003.

[20] Vadim Zaytsev. "Python Programming Language E-Learning Complex". In Russian. Bachelor's thesis. Rostov-on-Don, Russia: Rostov State University, June 2002.

[21] 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.

[22] Vadim Zaytsev. "Troyan Horses. Classification". In: *Xakep Journal* 01.13 (Jan. 2000). In Russian. An overview of troyan-class malware, pp. 62–64.

Conference proceedings & post-proceedings

[1] Mohammad Mehdi Afkhami, Iman Hemati Moghadam, Vadim Zaytsev, Mohammad Hossein Ashoori and Hossein Bazmandegan. "Refactoring Detection Across Languages: Leveraging Java-Trained Models for Detecting Class-Level Refactorings in Kotlin". In: *Proceedings of the 51st Euromicro Conference on Software Engineering and Advanced Applications, Data and AI Driven Engineering Track (SEAA/DAIDE)*. Vol. 16081. In print. 2025. DOI: 10.1007/978-3-032-04190-6_4.

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[184] Ping-Ching Yeh. "From Modeling to Verification: Translating SysMLv2 to PNML-Compliant Petri Nets". Master's thesis. Enschede, The Netherlands: Universiteit Twente, Aug. 2025.

[185] Anissa Donkers. "Exploring Code Quality in First-Year Java Projects: A Comparative Study of Traditional and AI-Assisted Solutions". Master's thesis. Enschede, The Netherlands: Universiteit Twente, Aug. 2025.

[186] Sorin Zele. "Codebase Modernity: One Step Forward". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107509.

[187] Bart Griepsma. "Can We Standardize LaTeX? Discovering Patterns in Real-World Repositories". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107264.

[188] Wouter ten Brinke. "FlexiTeX: LaTeX Collaboration Without Giving Up Personal Project Structure". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107262.

[189] Miroslav Atanasov. "Fake it till you make it: exploring the usefulness of synthetic self-admitted technical debt datasets". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107561.

[190] Enrique Ramos Adamik. "Comparing the Validation Capabilities of the Rascal and Spoofax Language Workbenches". Best Paper Nomination at 43TScIT. Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107673.

[191] Marius Pană. "Comparing Rascal and JetBrains MPS through a DOT-Based Domain-Specific Language". Best Paper Award at 43TScIT. Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107321.

[192] Aleksandra Ignatovič. "How Academics Organize LaTeX Projects—and Whether Structure Should Be Standardized". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107820.

[193] Faisal Nizamudeen. "Benchmarking the Programming Capabilities of Large Language Models". Master's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/107146.

[194] Luc Timmerman. "SCREAM: System for Cloud Resource Extraction And Motivation". Master's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/106603.

[195] Ivo Broekhof. "Maintainability Metrics for Mixed-Paradigm Code in Scala". Master's thesis. Enschede, The Netherlands: Universiteit Twente, June 2025. URL: http://purl.utwente.nl/essays/106404.

[196] Nick Wolters. "Building a Grammar: Generating Samples for Weighted Attribute Grammars". Master's thesis. Enschede, The Netherlands: Universiteit Twente, May 2025. URL: http://purl.utwente.nl/essays/106280.

[197] Thijs Beumer. "Measuring Code Modernity of Codebases Written in JavaScript". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, Jan. 2025. URL: http://purl.utwente.nl/essays/105139.

[198] Lotte Steenmeijer. "Use Weighted Attribute Grammars to Formalize Human-to-Machine Communication in Internet of Things Systems". Master's thesis. Enschede, The Netherlands: Universiteit Twente, Jan. 2025. URL: http://purl.utwente.nl/essays/104891.

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[200] Chris Bleeker. "Measuring Code Modernity in Rust". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, Feb. 2024. URL: http://purl.utwente.nl/essays/98262.

[201] Everard de Vree. "Forging a Differential Tester for Haskell Compilers using Xsmith". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, Feb. 2024. URL: http://purl.utwente.nl/essays/98278.

[202] Daniël Floor. "Code Comprehension in the Multi-Paradigm Environment Kotlin". Master's thesis. Enschede, The Netherlands: Universiteit Twente, Feb. 2024. URL: http://purl.utwente.nl/essays/98290.

[203] Valentijn Hol. *Facilitating Various Metaprogramming Techniques for Rust*. Capita Selecta. Universiteit Twente, Feb. 2024.

[204] Ömer Sayilir. "Towards Grammatical Inference of Legacy Programming Languages". Master's thesis. Enschede, The Netherlands: Universiteit Twente, May 2024. URL: http://purl.utwente.nl/essays/99151.

[205] Rafael Dulfer. "WAGon: A Weighted Attribute Grammar Oriented Notation". Master's thesis. Enschede, The Netherlands: Universiteit Twente, June 2024. URL: http://purl.utwente.nl/essays/99790.

[206] Vladislav Mukhachev. "Support Python in RefDetect". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/100856.

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[208] Haroun Mangal. "CSPL: A Domain-Specific Language for Modelling the Behaviour of Cyber-Physical Systems". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/101433.

[209] Selin Mehmed. "Domain-Specific Language for Cyber-Physical Systems: A Survey". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/100883.

[210] Marks Troicins. "Measuring Code Modernity of the C# Language Codebases". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/101016.

[211] Marko Vasylenko. "Input Invariants in Fuzz-testing". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/101049.

[212] Danila Bren. "Pushing Down Context Free Grammars". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/101755.

[213] Naum Rosenov Tomov. "Extensibility Of Domain-Specific Languages: A Case Study of an Industrial DSL". Master's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/100994.

[214] Filip Ivanov. "CodeQuizzer: Improving Codebase Understanding for Code Review via a Gamified Quiz Taking System". Master's thesis. Enschede, The Netherlands: Universiteit Twente, July 2024. URL: http://purl.utwente.nl/essays/101959.

[215] Oebele Lijzenga. "Generating Patch Ingredients for Search-Based Program Repair Using Code Language Models". Master's thesis. Enschede, The Netherlands: Universiteit Twente, Aug. 2024. URL: http://purl.utwente.nl/essays/102839.

[216] Arthur Rump. "Apollo++: Automated Assessment of Learning Outcomes in Programming Projects". Master's thesis. Enschede, The Netherlands: Universiteit Twente, Dec. 2023. URL: http://purl.utwente.nl/essays/97567.

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[220] Cristian Zubcu. "Effect of Normalization Techniques on Modernity Signatures in Source Code Analysis". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2023. URL: http://purl.utwente.nl/essays/96034.

[221] Vladimir Kobzev. "Dia: a Domain Specific Language for Scripted Dialogues and Cutscenes". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2023. URL: http://purl.utwente.nl/essays/95986.

[222] Tom Smeets. "µScope: A Reusable Interface For Debugging STM32 Microcontrollers". Best Presentation Award at 39TScIT. Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2023. URL: http://purl.utwente.nl/essays/96085.

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[224] Marnick van der Arend. "The LAMP Framework — A Language-Agnostic Code Quality Assurance Framework for Multi-Paradigm Languages". Master's thesis. Enschede, The Netherlands: Universiteit Twente, Mar. 2023. URL: http://purl.utwente.nl/essays/94619.

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[227] Michael Janssen. "A Parser Generator for Visibly Pushdown Languages: Translating between VPLs". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, Feb. 2023. URL: http://purl.utwente.nl/essays/94363.

[228] Rutger Witmans. "Improving nothingness: Refactorings on Whitespace". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, Feb. 2023. URL: http://purl.utwente.nl/essays/94374.

[229] Pepijn Visser. "xBib: The Language design and implementation of a Transformation Language". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, Feb. 2023. URL: http://purl.utwente.nl/essays/94379.

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[232] Wouter van den Brink. "Weighed and Found Legacy: Modernity Signatures for PHP Systems Using Static Analysis". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2022. URL: http://purl.utwente.nl/essays/91794.

[233] Berke Güdücü. "Weighted Abstract Syntax Trees for Program Comprehension in Java". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2022. URL: http://purl.utwente.nl/essays/91735.

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[235] Mark van Wijk. "The Quest for the Best Thread-Safe Java List". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2022. URL: http://purl.utwente.nl/essays/91694.

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[238] Jelle Hulter. "Improving the Integrated Development Environment of a Legacy Software Platform". Best Paper Nomination at 37TScIT. Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2022. URL: http://purl.utwente.nl/essays/91785.

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[250] Aamir Farooq. "How to Zen Your Python". Best Paper Award at 35TScIT. Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, July 2021. URL: http://purl.utwente.nl/essays/86873.

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[252] Frank Groeneveld. "Benchmarking and Optimisation of Engage!-based XML Parsers". Bachelor's thesis. Enschede, The Netherlands: Universiteit Twente, Jan. 2021. URL: http://purl.utwente.nl/essays/85677.

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[277] René Bulsing. "Detecting Refactored Clones with Rascal". Master's thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2015. URL: https://scripties.uba.uva.nl/search?id=588336.

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[281] Sven Rohde. "Test-suite for Automated Invariant-based Testing of AJAX Web-applications". Master's thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Mar. 2015. URL: https://scripties.uba.uva.nl/search?id=533688.

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[290] Andreas Brandt. "Algebraic Analysis of MapReduce Samples". Bachelor's thesis. Koblenz, Germany: Universität Koblenz-Landau, Feb. 2010. URL: http://softlang.uni-koblenz.de/BrandtThesis.pdf.

Notable activities

Dynamically updated portfolio counterpart: http://grammarware.net/goes

2025

- Editor in Chief at SLEBoK.
- General Chair at BENEVOL.
- Work Package Leader of *WP4: MBSE* at a Dutch NWO project *ZORRO: Engineering for Zero Downtime in Cyber-Physical Systems via Intelligent Diagnostics*
- Programme Co-Chair at ICT.OPEN, SLE.
- Workshop Co-Chair at OOPSLE (at STAF).
- Programme Committee Member at ASE, GPCE, ICCQ, CSEE&T at ICSE, MODELSWARD, FASE, EduSymp.
- Committee of Recommendation Member for the Sentinel Symposium of Inter-*Actief*.
- External reviewer for ICPE.
- Working Group member at VERSEN.

2024

- Editor in Chief at SLEBoK.
- General Chair at STAF.
- Work Package Leader of *WP4: MBSE* at a Dutch NWO project *ZORRO: Engineering for Zero Downtime in Cyber-Physical Systems via Intelligent Diagnostics*
- Programme Committee Member at ICCQ, VISSOFT, EduSymp, GPCE, MLE at MoDELS.

- Committee of Recommendation Member for the Hephaestus Symposium of Inter-*Actief*.

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*
- Programme Committee Member at ASE, ECMFA, SATToSE, SLE, PLNL, WAPL, EduSymp, MSR, MODELSWARD.
- Committee of Recommendation Member for the Denarius Symposium of Inter-*Actief*.
- External reviewer at EVCS (×2), RRRR.
- Keynote speaker at MODELSWARD, SIESTA.
- Session chair at MODELSWARD, REBLS, SLE, BENEVOL.
- Working Group member at VERSEN.
- Presenter at SATToSE [97, 98].

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 [101], SCAM [38], HuFaMo [100], EduSymp [36].
- Best Artefact Award at ICSME 2022 [39].

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 (1^{st} 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 [6] (remote).
- Presentation co-author at SATToSE [107].
- 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 [159].
- 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 [44, 114].
- 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 [45].
- Presenter at ‹Programming› [114], TechDebt [113], SoHeal [112], REBLS [110].
- Keynote Speaker at MLE and BENEVOL [109].
- External reviewer at PeerJ, IET Software, SoSyM.

2018

- Editor in Chief at SLEBoK.
- 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.
- 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 [160].
- 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 [120], IWACO [119], PLATEAU [116], NOOL [115], Parsing@SLE [117], PX/17.2 [292], CoCoS [49], ‹Programming› [7], SLE [51], GPCE [50].
- 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 [61], ICSME [123], DSLDI [122], META [58].
- Presentation co-author at ICSME×2 [59, 124], SLE×2 [56, 57].

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 [9] (at SANER) and MMMDE [173] (at MoDELS).
- Session Chair at SANER, SATToSE, GTTSE, IFL.
- Volume co-editor for CEUR [126].
- Invited speaker at Hackers & Designers Summer Academy [122].
- External reviewer for JSS, ComLan (×3), SANER.
- Presenter at FlexMDE [63], EduSymp [62], MULTI [64], IFL [128], PAME [129], GCM [65], SATToSE [130, 131], SATToSE Hackathon [174].
- Presentation co-author at SRC [127].
- 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 [162] and co-editor for SATToSE [161].
- Workshop Co-Chair of OOPSLE [135] (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 [12], CSMR-WCRE ERA [74], Joy of Coding, TFPIE [137], TFP [136], WLE, GEMOC [71], ME [72], EduSymp [69], MoDELS [73].
- Co-author of papers presented at Parsing@SLE [134], EduSymp [70].
- Poster presenter at CSMR-WCRE [74], 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 [138] (at WCRE).
- Hackathon participant at WMH, WCRE.
- Tutorial presenter at MoDELS.
- Presenter at SATToSE [142], SATToSE TS, XM [140], SLE [75].
- Co-author of a paper presented at XM [139].
- Poster presenter at SLE [141].

2012

- Program Committee Member at LDTA, SCAM, SQM, WCN.
- Program Chair at WCN.
- Proceedings editor for WCN [164, 165].
- External reviewer for IET Software, SCP (×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 [147], SAC/PL [81], LDTA [146], SATToSE, SoTeSoLa TS, SFD, XM [144], MPM [143], WNH.
- Poster presenter at CWI Lectures (×3), MPM [143].

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 [166].
- Session Chair at WCN.
- Co-reviewer for LOPSTR, ESEC/FSE TDT.
- Presenter at SLE [149], Wikimania [179].

2010

- PhD degree at Vrije Universiteit Amsterdam [15].
- Program Committee Member at DYLA, SCAM.
- Triple System Operator at Wikia.
- Co-reviewer for CSMR, ECMFA, ICPC, MoDELS.
- Presenter at WSR [16], SLE [150].

2009

- Best Paper Award at SCAM [85].
- 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 [86], GTTSE [152], SCAM [85].
- 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 [87].

2005

- Co-reviewer for CSMR, WCRE.
- Presenter at GTTSE [154].

2004

- Dutch University Diploma *cum laude*, second MSc [17].
- 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 [19].
- Presenter at DeBT.

2002

- Python On-line Learning Complex (the first in Russian) [183]
- Russian University Diploma, BSc [20].

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* [109] (BENEVOL keynote, 2019) — cf. [43]
- *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. [52]
- *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. [122]
- *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. [62]
- *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 [124] + dataset [123]; the dataset won the award)
- *FlexMDE 2015* tool demo [63]
- *SATToSE 2015 Hackathon* participation, demo [174]
- *SATToSE 2015 Technology Showdown* demo [130]
- *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
- *GTTSE 2009* participation, most active prize