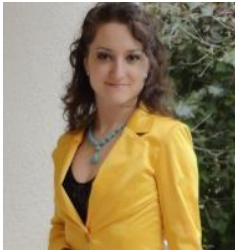



PERSONAL INFORMATION **Isabela Drămnesc**



 Bdv. Vasile Pârvan, no.4, room 050B, 300223, Timișoara, Romania

WORK EXPERIENCE

January 2016 - present **Lecturer**

West University of Timișoara, Faculty of Mathematics and Computer Science, Department of Computer Science

- Teaching, evaluation, supervision, tutoring, research
- A WUT welcome & an example of a mini-course that I teach:
(in EN) <https://www.youtube.com/watch?v=MvnjXrhtaHY>
and (in RO) https://www.youtube.com/watch?time_continue=4&v=sc9bCWH8TzI

Sector Education

March 2013 – January 2016 **Teaching Assistant**

West University of Timișoara, Faculty of Mathematics and Computer Science, Department of Computer Science

- Teaching, evaluation, supervision, tutoring, research

Sector Education

February 2009 – March 2013 **Preparator**

West University of Timișoara, Faculty of Mathematics and Computer Science, Department of Computer Science

- Teaching, evaluation, supervision, research

Sector Education

EDUCATION AND TRAINING

1 October 2017 – 14 December 2017

Training in PBL (Problem Based Learning)

Maastricht University, Netherlands and West University of Timisoara, Romania

- Member of the project: Integrated Continuous Psycho-pedagogical Training System for University Teachers in West University of Timisoara, a project of Academic Development Center of West University of Timisoara in partnership with Maastricht University, Netherlands;
- PBL-MOOC (October 2017– December 2017): Online course certificate on Problem Based Learning: Principles and Design provided by School of Health Professions Education of Maastricht University, Netherlands
- Training stage (November 2017) at Maastricht University, Netherlands;
- Trainings at West University of Timisoara with experts from Maastricht University, Netherlands

1 June 2014 – 13 December 2015 Postdoctoral position in Computer Science

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timișoara, Romania mentor Prof. Dr. Tudor Jebelean from Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria.

- Research in the field of automated reasoning, logic, algorithm synthesis on binary trees, the Theorema system, the Coq system.
- POSDRU Grant (1 June 2015 – 30 July 2015) – Research Stage at INRIA, Sophia-Antipolis, France

1 October 2008 – 7 December 2012 Ph.D Degree in Computer Science

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timișoara, Romania under the supervision of Prof. Dr. Tudor Jebelean from Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria.

- PhD Thesis: “*Case Studies on Algorithm Synthesis and Theory Exploration in Theorema*”
- Research in the field of automated reasoning, logic, algorithm synthesis on lists, sets, monotone lists, the Theorema system.
- European Project (1 October – 15 December 2011) Research Stage at Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria;
- Austrian Grant (15 May - 31 July 2011) Research Stage at Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria;
- Erasmus Grant (1 February 2010 - 3 July 2010) Studies at Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria;

September 2007 – June 2010 Sc. Degree in Music

Center of Culture and Art, Timișoara School of Arts, Timis County, Romania

- The study included: Classical Music, International Music, Traditional Music, Musical Theory; and Instrument (Piano);
- *Vocal Artist Diploma* (graduated with 10 – the maximum degree).

October 2007 – July 2009 M.Sc. Degree in Computer Science applied on Science, Economy

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timișoara, Romania

October 2003 – July 2007 Bachelor Degree in Mathematics and Computer Science

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timișoara, Romania

- The study included: Mathematical Analysis, Algebra, Geometry, Differential Equations, Numerical Analysis, Mechanics, Probability and Statistics, Computer Science Bases, Algorithms and Programming, Information Systems for Economy, Formal Languages, Data Structures.
- Bachelor Thesis: “*Polynomial factorization*”, Scientific advisor: Prof. Dr. Gheorghe Ivan.

September 1999 – June 2003 High School

National College “Decebal”, Deva, Romania

September 1991 – June 1999 Classical School

National College “Sabin Dragoi”, Deva, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	C2	A2	B2	B2	A1
French	B1	B1	A2	A2	A2

Communication skills

- good communication skills gained through my experience: as a teacher, as a tutor, as a team leader in organizing international conferences, workshops and other events held in our department of Computer Science and in other countries
- working in national and international teams
- social counselling
- intercultural skills
- social skills for cultural and artistic activities carried out in parallel with the professional activity

Organisational / managerial skills

Leadership and organizational skills.

- Conference organizer or local chair: SYNASC 2009, SYNASC 2010, SYNASC 2011, SYNASC 2012, SYNASC 2013, SYNASC 2014, SYNASC 2015, SYNASC 2016, SYNASC 2017, SYNASC 2018, SYNASC 2019 www.synasc.ro, PAS 2015 <http://pas2015.cc4cm.org>, FROM 2019_ <http://from2019.projects.uvt.ro>
- member of Senate of West University of Timisoara since February 2019 -- present.

Job-related skills

System Experience

- Working Experience on PCs (Windows 95, 98, XP, Vista, 7, 8, 10)
- Programming Languages:
 - Imperative: C, Pascal, Python,
 - Object-Oriented: C++, Java,
 - Declarative: Prolog,
 - Functional: Lisp, Scheme/Racket,
 - Other: Maple, Mathematica, Theorema
- Other: LaTeX, Office, FoxPro, Html.

Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Other computer skills:

- good web developer (webpages created: <http://staff.fmi.uvt.ro/~isabela.dramnesc>)

Other skills

Vocal artist passionate on Romanian traditional music, a very good composer of songs and poems, a very good dancer, a very good hairstylist, a good chess player, a good painter, a passionate driver.

Driving licence Driving licence category B since December 2002.

 ADDITIONAL INFORMATION

Publications
 Presentations
 Projects
 Conferences
 Seminars
 Memberships
 References
 Citations
 Courses

Publications:

- 5 journal articles (from which 2 are ISI core rank A),
- 13 conference articles (from which 12 are ISI core rank C),
- 6 international technical reports published in RISC Report Series, Research Institute for Symbolic Computation, University of Linz, Austria
- 1 book: Principles and Practice of Functional Programming, Editura Universității de Vest, Timișoara

Presentations at international conferences, workshops and seminars:

- Ukraine: *2009 Seminar* at National Taras Shevchenko University in Kiev,
- Austria: *SCSS 2010* at Johannes Kepler University of Linz; *CIAO 2010* at RISC Hagenberg; *RISC Theorema Seminar 2010* at RISC, Hagenberg; *RISC Theorema Seminar 2011* at RISC, Hagenberg; *Vienna Summer of Logic 2014* at Vienna University of Technology,
- Serbia: *SISY2012*, *SISY2014*, *SISY2015*, *SISY2019* in Subotica,
- France: *INRIA Seminar 2015* in Sophia-Antipolis,
- Romania: *SYNASC 2010*, *SYNASC 2011*, *SYNASC 2012*, *Scientific Seminar UVT 2012*, *Annual PhD Students Session 2012*, *SYNASC 2015*, *FROM 2019* at West University of Timisoara; *SACI 2012*, *SACI 2016* at Politehnica University of Timisoara

Projects:

- SciCom (Scientific Computing Platform) bilateral project, collaboration Romania-Austria, July 2010 – August 2010 – Young Visiting Researcher RISC, Linz, Austria;
- SPRERS (Strengthening the Participarion of Romania at European R&D in Software Services), West University of Timisoara, 1 October 2011 – 15 December 2011 – Young Visiting Researcher RISC, Linz, Austria;
- HOST (High Performance Computing Service Center), West University of Timisoara, 1 January 2012 – 31 December 2014;
- POSDRU/159/1.5/S/137750, Project Doctoral and Postdoctoral programs support for increased competitiveness in Exact Sciences research cofinanced by the European Social Fund within the Sectoral Operational Programme Human Resources Development 2007 – 2013, West University of Timisoara, 1 June 2014 - 13 December 2015;
- Integrated Continuous Psycho-pedagogical Training System for University Teachers in West University of Timisoara, Maastricht University, Netherlands, 1 October – 15 December 2017;
- Discover WUT, West University of Timisoara, May 2018;
- Project Erasmus+ Strategic Partnership for Higher Education: Automated Reasoning in the Class (as project manager), West University of Timisoara, 1 October 2019 – 30 September 2021.

Trainings, Tutorials, Seminars, Workshops, and Summer Schools:

- CIAO workshop, 3-5 August 2010, Research Institute for Symbolic Computation (RISC) in Hagenberg, Austria, <http://www.risc.jku.at/conferences/ciao2010/?content=program>
- Summer School on Language Frameworks, Sinaia, Romania, July 23-31, 2012, <https://fmse.info.uaic.ro/events/SSLF12>
- Tutorial on Programming Language Design and Analysis using the K Framework, 29 September 2012, West University of Timișoara, Romania, <http://synasc12.info.uvt.ro/tutorials/tutorial-k-framework>
- Workshop of e-Infrastructure for Public Sector, 21-23 March, 2013, West University of Timișoara, <http://host.hpc.uvt.ro/events/workshop-of-e-infrastructure-for-public-sector>
- Seminar „Training Proiecte FP7, PN II and POSDRU”, 26.04.2013, Timișoara, Romania, <http://www.cercetare.uvt.ro/seminar-training-proiecte-fp-7-pnii-posdru>
- Info Day H2020-ICT, 16 December 2013, West University of Timișoara, <http://host.hpc.uvt.ro/events/infoday-h2020-ict>
- 2014 Tarragona International Summer School on Trends in Computing, Tarragona, Spain, July 7-11, 2014, <http://grammars.grlmc.com/sstic2014>
- Tutorial on “The Theorema Proof Assistant”, September 2017, Timisoara, Romania, <https://synasc.ro/2017/tutorials-2/wolfgang-windsteiger>
- STP Valencia Languages & IT Training for University Staff, June 2019, Politehnica University of Valencia, Spain <http://staffmobility.eu/staffweek/18th-stp-valencia-languages-it-training>
- Erasmus+ Strategic Partnerships for Higher Education Workshop, February 2019, National Agency ANPCDFP, <https://www.erasmusplus.ro/evenimente-det/vrs/IDev/1403>

Keynote speaker:

- Student Centred Approach: A Case Study on Problem based Learning, 11 and 14 December 2017, West University of Timișoara, Romania

Teaching stages at:

- Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria in 28.03.2019 – 13.04.2019 within the Erasmus+ mobilities for teaching

Program Committee member

- PAS 2015 Fourth International Seminar on Program Verification, Automated Debugging and Symbolic Computation, Beijing, China, October 21-23, 2015, <http://pas2015.cc4cm.org/organizers.html>
- Information Sciences, Elsevier Journal, (ISI core rank A)

Managing editor from 2012 to present:

- Annals of West University of Timișoara, Mathematics and Informatics Series. <http://www.math.uvt.ro/anmath/index.php/ami/about/editorialTeam>

Expert evaluator:

- Romanian: Stiintescu projects, 2nd edition, 2019, <https://timisoara.stiintescu.ro/>

Citations:

- On Google Scholar: h-index 6, around 100 citations
- On ISI Web of Knowledge: h-index 2, around 50 citations
- On Scopus: h-index 5, around 60 citations
- On ResearchGate: h-index 4, around 40 citations
- On Mendeley: h-index 5, around 60 citations

Courses:

- Online at <http://staff.fmi.uvt.ro/~isabela.dramnesc>
- A minicourse (in EN) <https://www.youtube.com/watch?v=MvnjXrhtaHY>
- and (in RO) https://www.youtube.com/watch?time_continue=4&v=sc9bCWH8TzI

ANNEX 1

Selected list of publications:

PhD Thesis:

I. Drămnesc, *Case Studies on Algorithm Synthesis and Theory Exploration in Theorema*, Faculty of Mathematics and Computer Science, West University of Timisoara, December 2012, Scientific advisor: Prof. Dr. Tudor Jebelean, Johannes Kepler University of Linz, Austria.

Books:

M. Marin, V. Negru, I. Drămnesc, *Principles and Practice of Functional Programming*, (in EN), Editura Universității de Vest, Timisoara, 2016, ISBN 978-973-125-451-7.

Journal articles:

- 1) I. Drămnesc, T. Jebelean, S. Stratulat, *Mechanical Synthesis of Sorting Algorithms for Binary Trees by Logic and Combinatorial Techniques*, Journal of Symbolic Computation, Elsevier, vol. 90, 2019, pp. 3 – 41, <https://doi.org/10.1016/j.jsc.2018.04.002>
- 2) I. Drămnesc and T. Jebelean, *Synthesis of List Algorithms by Mechanical Proving*, Journal of Symbolic Computation, Elsevier, vol. 69, issue 1, 2015, pp. 61 – 92, <http://dx.doi.org/10.1016/j.jsc.2014.09.030>

- 3) I. Drămnesc and T. Jebelean, *Proof Based Synthesis of Algorithms: A Case Study on Monotone Lists*, Scientific Bulletin of The „Politehnica” University of Timișoara, Romania, Transactions on Automatic Control and Computer Science, vol. 60(74), issue 2, 2015, pp. 97 – 104, ISSN 1224-600X
- 4) I. Drămnesc and T. Jebelean, *Systematic Exploration of List Theory in Theorema*, Scientific Bulletin of The „Politehnica” University of Timișoara, Romania, Transactions on Automatic Control and Computer Science, vol. 57(71), issue 4, 2012, pp. 203 – 210, ISSN 1224-600X
- 5) I. Drămnesc and T. Jebelean, *A Case Study in Proof Based Synthesis of Sorting Algorithms*, Annals of West University of Timisoara, Series Mathematics - Informatics XLVIII/3, pp. 47-58, 2010, ISSN 1841-3293, <http://www.math.uvt.ro/anmath/index.php/ami/article/view/76>.

Articles in Conference Proceedings

- 1) I. Drămnesc, T. Jebelean, *Proof-Based Synthesis of Sorting Algorithms using Multisets in Theorema*, In: Proceedings of FROM 2019: 3rd Symposium on Working Formal Methods, pp. 76-91, September 3-5, 2019, Timisoara, Romania, <https://arxiv.org/abs/1909.01747v1>
- 2) I. Drămnesc, T. Jebelean, *Case Studies on Algorithm Discovery from Proofs: The Delete Function on Lists and Binary Trees using Multisets*, In: Proceedings of SISY 2019: the 17th IEEE International Symposium on Intelligent Systems and Informatics, pp. 213-220, September 12-14, 2019, IEEE Xplore.
- 3) I. Drămnesc, T. Jebelean, S. Stratulat, *A case study on algorithm discovery from proofs: The insert function on binary trees*, In: Proceedings of SACI 2016: 11th IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 231-236, May 12-14, 2016, Timisoara, Romania, <http://dx.doi.org/10.1109/SACI.2016.7507376>.
- 4) I. Drămnesc, T. Jebelean, S. Stratulat, *Proof-based Synthesis of Sorting Algorithms for Trees*, In: Proceedings of LATA 2016: 10th International Conference on Language and Automata Theory and Applications, pp. 562-575, March 14-18, 2016, Prague, Czech Republic, Springer, http://dx.doi.org/10.1007/978-3-319-30000-9_43.
- 5) I. Drămnesc, T. Jebelean, S. Stratulat, *Combinatorial Techniques for Proof-based Synthesis of Sorting Algorithms*, In: Proceedings of SYNASC 2015: the 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, pp. 137-144, 21-24 September 2015, IEEE Computer Society, <http://dx.doi.org/10.1109/SYNASC.2015.30>.
- 6) I. Drămnesc, T. Jebelean, S. Stratulat, *Theory Exploration of Binary Trees*, In: Proceedings of SISY 2015: the 13th IEEE International Symposium on Intelligent Systems and Informatics, pp. 139-144, 17-19 September 2015, IEEE Xplore, <http://dx.doi.org/10.1109/SISY.2015.7325367>.
- 7) I. Drămnesc, T. Jebelean, *A Case Study in Proof Based Synthesis of Algorithms on Monotone Lists*, In: Proceedings of SACI 2015: the 10th IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 483-488, 21-23 May 2015, IEEE Xplore, <http://dx.doi.org/10.1109/SACI.2015.7208252>.
- 8) I. Drămnesc, T. Jebelean, *Theory Exploration of Sets Represented as Monotone Lists*, In: Proceedings of SISY 2014: the IEEE 12th Jubilee International Symposium on Intelligent Systems and Informatics, pp. 163-168, 11-13 September 2014, IEEE Xplore, <http://dx.doi.org/10.1109/SISY.2014.6923579>.
- 7) I. Drămnesc, T. Jebelean, *Automated Synthesis of Some Algorithms on Finite Sets*, In: Proceedings of SYNASC 2012: the 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, D. Wang, V. Negru, T. Ida, T. Jebelean, D. Petcu, S. Watt and D. Zaharie (ed.), 26-29 September 2012, IEEE Computer Society, pp. 143 – 151, <http://dx.doi.org/10.1109/SYNASC.2012.43>
- 10) I. Drămnesc, T. Jebelean, *Discovery of Inductive Algorithms through Automated Reasoning: A Case Study on Sorting*, In: Proceedings of SISY 2012: the IEEE 10th Jubilee International Symposium on Intelligent Systems and Informatics, pp. 293-298, 20-22 September 2012, IEEE Xplore, <http://dx.doi.org/10.1109/SISY.2012.6339532>.
- 11) I. Drămnesc, T. Jebelean, *Theory Exploration in Theorema: Case Study on Lists*, In: Proceedings of SACI 2012: the 7th IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 421-426, 24-26 May 2012, IEEE Xplore, <http://dx.doi.org/10.1109/SACI.2012.6250041>.
- 12) I. Drămnesc, T. Jebelean, *Proof Techniques for Synthesis of Sorting Algorithms*, In: Proceedings of SYNASC 2011: the 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, D. Wang, V. Negru, T. Ida, T. Jebelean, D. Petcu, S. Watt and D. Zaharie (ed.), pp. 101-109, September 2011, IEEE Computer Society, <http://dx.doi.org/10.1109/SYNASC.2011.23>.

- 13) I. Drămnesc, T. Jebelean, A. Crăciun, *A Case Study in Systematic Exploration of Tuple Theory*, Proceedings of SCSS 2010: Symbolic Computation in Software Science (Hagenberg, Austria), RISC Report Series, No 10-10, pp. 82-95, University of Linz, Austria, 29-30 July 2010, http://www.risc.jku.at/publications/download/risc_4191/Proceedings-SCSS-2010.pdf.

International Technical Reports

- 1) I. Drămnesc, T. Jebelean, S. Stratulat, *Synthesis of Some Algorithms for Trees: Experiments in Theorema*, Technical report no. 15-04 in RISC Report Series, Research Institute for Symbolic Computation, University of Linz, Schloss Hagenberg, 4232 Hagenberg, Austria, 2015
- 2) I. Drămnesc, T. Jebelean, *Systematic Exploration of the Theory of Lists in Theorema*, Technical report no. 12-02 in RISC Report Series, Research Institute for Symbolic Computation (RISC), University of Linz, Schloss Hagenberg, 4232 Hagenberg, Austria, January 2012
- 3) I. Drămnesc, T. Jebelean, *Semi-automatic Synthesis of Some Sorting Programs in Theorema*, Technical report no. 12-01 in RISC Report Series, Research Institute for Symbolic Computation (RISC), University of Linz, Schloss Hagenberg, 4232 Hagenberg, Austria, January 2012
- 4) I. Drămnesc, T. Jebelean, *Automated Reasoning on Tuples - Case Studies in Proof Based Synthesis*, Technical report no. 11-08 in RISC Report Series, Research Institute for Symbolic Computation (RISC), University of Linz, Schloss Hagenberg, 4232 Hagenberg, Austria, July 2011
- 5) I. Drămnesc, T. Jebelean, *Proof Based Synthesis of Sorting Algorithms*, RISC Report Series, No 10-17 in RISC Report Series, Research Institute for Symbolic Computation (RISC), University of Linz, Schloss Hagenberg, 4232 Hagenberg, Austria, July, 2010.
- 6) I. Drămnesc, T. Jebelean, A. Crăciun, *Case Studies in Systematic Exploration of Tuple Theory*, Technical report no. 10-09 in RISC Report Series, Research Institute for Symbolic Computation (RISC), University of Linz, Schloss Hagenberg, 4232 Hagenberg, Austria, May 2010.

Scrisoare de motivare a candidaturii
pentru un mandat în
Consiliul Facultății de Matematică și Informatică

Subsemnata, Isabela Drămnesc, lector universitar doctor la Departamentul de Informatică, Facultatea de Matematică și Informatică, precizez că principala motivație de a candida la o poziție de membru în Consiliul Facultății de Matematică și Informatică este dorința de a contribui la dezvoltarea continuă a Departamentului de Informatică și implicit a Facultății de Matematică și Informatică, atât în plan academic cât și în cel al activității de cercetare. În acest sens mă voi implica în acțiuni care vizează:

Dezvoltarea facultății:

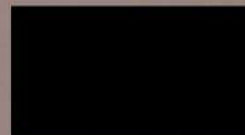
- Elaborarea și punerea în practică a unei strategii de dezvoltare a facultății prin exploatarea specificului și înrudirii dintre două domenii (Matematică și Informatică).
- Stimularea colaborării între cadrele didactice și cercetătorii de la cele două departamente prin dezvoltarea de programe de studii interdisciplinare și implicarea în proiecte comune de cercetare.

Vizibilitatea națională și internațională:

- Creșterea vizibilității interne și internaționale a facultății atât în plan academic (prin susținerea acțiunilor de promovare a programelor de studii, de atragere a studenților străini), cât și în planul cercetării științifice (prin participarea la organizarea de evenimente științifice cu caracter internațional),
- Elaborarea și punerea în practică a unei strategii de colaborare cu profesori și cercetători din diferite părți ale lumii (prin efectuarea unor vizite la universități atât din Europa, cât și din alte continente).

Timișoara, 11.11.2019

Semnătura,



Declarație

Subsemnata, Isabela DRĂMNEȘC, lector universitar doctor la Departamentul de Informatică din cadrul Facultății de Matematică și Informatică al Universității de Vest din Timișoara, declar pe proprie răspundere că nu am fost nici lucrător și nici colaborator al securității.

Timișoara,

11.11.2019

Lect. Univ. Dr. Isabela DRĂMNEȘC,

