

Curriculum Vitae

Horățiu Cheval

Personal data

Birth date: February 8, 1998
Nationality: Romanian
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Affiliation: Research Center for Logic, Optimization and Security (LOS),
Department of Computer Science,
Faculty of Mathematics and Computer Science,
University of Bucharest

Education

2021 - present Ph.D. in Mathematics
University of Bucharest
2019 - 2021 M.Sc. in Computer Science
Faculty of Mathematics and Computer Science, University of Bucharest
2016 - 2019 B.Sc. in Computer Science
Faculty of Mathematics and Computer Science, University of Bucharest

Employment

Feb 2022 - present Teaching Assistant (*“Asistent universitar”*)
Department of Computer Science, University of Bucharest
Sep 2019 - Aug 2020 Teaching Computer Science
School 179, Bucharest

Publications

Journal papers

- *On modified Halpern and Tikhonov-Mann iterations* (with Ulrich Kohlenbach and Laurențiu Leuștean), *Journal of Optimization Theory and Applications*, (2023), published online: <https://doi.org/10.1007/s10957-023-02192-6>.
- *Quadratic rates of asymptotic regularity for the Tikhonov-Mann iteration* (with Laurențiu Leuștean), *Optimization Methods and Software*, Vol. 37 (2023), No. 6, 2225-2240.

Preprints

- *Formal Definitions and Proofs for Partial (Co)Recursive Functions* (with David Nowak and Vlad Rusu), hal-04360660v2, 2023

- *Rates of asymptotic regularity of the Tikhonov-Mann iteration for families of mappings*, arXiv:2304.11366 [math.OC], 2023.
- *Linear rates of asymptotic regularity for Halpern-type iterations* (with Laurențiu Leuştean), arXiv:2303.05406 [math.OC], 2023.

Talks

Invited talks

- *Logic Colloquium 2023, Special Session on Applied Proof Theory*, Milan, June 5-9, 2023
<https://lc2023.unimi.it>

Contributed conference talks

- *MFO Workshop, Mathematical Logic: Proof Theory, Constructive Mathematics*, Oberwolfach, November 12 - 17, 2023
https://www.mfo.de/occasion/2346/www_view
- *Working Formal Methods Symposium (FROM) 2023*, Bucharest, September 21 - 22, 2023
<https://from2023.cs.unibuc.ro/>
- *The Tenth Congress of Romanian Mathematicians*, Pitești, June 30 - July 5, 2023
<http://www.imar.ro/~congmatro10/>
- *Workshop for Young Researchers in Mathematics*, Bucharest, May 19-20, 2022
<https://fmi.univ-ovidius.ro/cercetare/wyrm2022/>
- *Working Formal Methods Symposium*, Timișoara, December 8-9, 2021
<https://from2021.cs.unibuc.ro/>
- *Logic Colloquium 2021*, Poznań, July 19-24, 2021
<https://lc2021.pl/>
- *Computability in Europe 2021*, Ghent, July 5-9, 2021
<https://www.cie2021.ugent.be/>
- *The 22nd annual Graduate Student Conference in Logic*, University of Illinois at Urbana-Champaign, USA, March 20-21, 2021
<https://sites.google.com/view/gsc1xxii/>

Seminar and other talks

- *LOS/IMAR/ILDS Logic Seminar*, Bucharest, October 19, 2023
<https://ilds.ro/logic-seminar/>

- *EuroProofNet WG3 Meeting*, Timișoara, February 8-9, 2023
<https://europroofnet.github.io/wg3-timisoara/>
- *RV/ILDS/LOS InFormal Workshop on Logics*, January 23, 2023
<https://ilds.ro/2023/01/rv-ilds-los-informal-workshop-on-logics/>
- *LOS Seminar*, Research Center for Logic, Optimization and Security, University of Bucharest, November 23, 2021
<https://los.cs.unibuc.ro/seminar-LOS.html>
- *Logic Seminar*, Faculty of Mathematics and Computer Science, University of Bucharest, February 18 & 25, 2021
<https://cs.unibuc.ro/~lleustean/Seminar-Logic/seminar-logic.html>

Research projects

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| Oct 2023 - present | Member of the research project <i>Matching Logic and Lean: The \mathbb{K} Connection</i> , Institute for Logic and Data Science (ILDS) - Runtime Verification (RV) |
| Jan 2023 - present | Member of EuroProofNet (European Research Network on Formal Proofs COST action CA20111), Working Group 3: Program verification |
| Jul 2022 - Jan 2023 | Member of the research project <i>Matching Logic and Lean - Foundations</i> , Institute for Logic and Data Science (ILDS) - Runtime Verification (RV) |

Scientific visits

- INRIA Lille (invited by Vlad Rusu), September 4 - 10, 2023

Organizing committees

- Working Formal Methods Symposium (FROM) 2023 (with Nicoleta Dumitru, Ioana Leuştean, Natalia Ozunu, Andrei Sipoş, Traian Şerbănuţă), Bucharest, September 21 - 22, 2023

Edited volumes

- Proceedings of the 7th Symposium on Working Formal Methods (FROM 2023) (with Laurențiu Leuştean and Andrei Sipoş), <https://doi.org/10.4204/EPTCS.389>, 2023

Scholarships and awards

- Third prize at the Student Scientific Communications Session of the Faculty of Mathematics and Computer Science, May 26, 2023
<https://fmi.unibuc.ro/noutati/sesiunea-de-comunicari-stiintifice-studentesti-premii/>
- Second prize at the Student Scientific Communications Session of the Faculty of Mathematics and Computer Science, May 18, 2021
<https://fmi.unibuc.ro/noutati/sesiunea-de-comunicari-stiintifice-studentesti-premii/>
- Bitdefender research scholarship, March - July 2020
<https://sla.cs.unibuc.ro/ro/castigatorii-burse-si-premii-bitdefender/>

Teaching

- *Logic for Multiagent Systems* lab, Winter Term, 2021/2022, 2022/2023
- *Operating Systems* lab, Winter Term, 2021/2022, 2022/2023
- *Mathematical and Computation Logic* lab, Winter Term 2022/2023
- *Formal Languages and Automata Theory* seminar, Spring Term, 2021/2022, 2022/2023
- *Mathematical Logic* seminar, Spring Term, 2021/2022, 2022/2023
- *Programming Languages Fundamentals* lab, Spring Term, 2021/2022, 2022/2023

Administrative duties

2021 - present Student member of the Council of the Doctoral School of Mathematics,
University of Bucharest