

## CURRICULUM VITAE

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### Experienta profesionala

|                   |                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 02/2025 – prezent | sef de lucrari, Univ Tehnica Cluj-Napoca, Romania<br>-limbaje formale si translatoare, sisteme bazate pe cunostinte, introducere in , etc.                                                                                                                                                                                     |
| 03/2024 – 02/2025 | asistent universitar, Universitatea Tehnica Cluj-Napoca, Romania<br>-sisteme bazate pe cunostinte, introducere in inteligenta artificiala, etc.                                                                                                                                                                                |
| 05/2022 – 02/2024 | cercetator, Universitatea Varsovia, Polonia<br>- rationare eficienta cu baze de date si baze de cunostinte: semantic treewidth, C2RPQs, etc.                                                                                                                                                                                   |
| 09/2015 – 06/2021 | cercetator, Universitatea Bremen, Germania<br>- interogare eficienta a ontologiilor: DLs, TGDs, insule de tractabilitate<br>- proiect: CODA                                                                                                                                                                                    |
| 03/2013 – 08/2015 | cercetator, Universitatea Oxford, Marea Britanie<br>- definirea si rationarea cu un nou limbaj lightweight bazat pe DLs: Role Safety Acyclic (RSA) DL<br>- proiect: Score!                                                                                                                                                     |
| 02/2008 – 12/2012 | cercetator, Universitatea Technologica din Viena, Austria<br>- combinarea regulilor cu ontologiile, in special in contextul Open Answer Set Programming<br>- proiecte: Rationare cu baze de cunostinte hibride; ONTORULE;<br>- coordonare locala pentru Ontorule si reprezentarea grupului in EPMB si review-urile de proiect. |
| 09/2004 – 01/2008 | cercetator, Digital Enterprise Research Institute, Innsbruck, Austria<br>- cercetare pe teme legate de Semantic Web in proiecte EU si locale;<br>- scriere de W3C submissions si propuneri de proiecte;                                                                                                                        |

## Activitate didactica

|                                   |                                         |                        |
|-----------------------------------|-----------------------------------------|------------------------|
| Semestrul vara, 2025              | Limbaje formale si translatoare         | Curs                   |
| Univ. Tehnica Cluj-Napoca         |                                         |                        |
| Semestrul vara, 2025              | Semantic Web Agents                     | Laborator              |
| Univ. Tehnica Cluj-Napoca         |                                         |                        |
| Semestrul vara, 2024-2025         | Sisteme bazate pe cunostinte (ro, en)   | Laborator              |
| Univ. Tehnica Cluj-Napoca         |                                         |                        |
| Semestrul vara, 2024-2025         | Sisteme bazate pe cunostinte (ro, en)   | Seminar                |
| Univ. Tehnica Cluj-Napoca         |                                         |                        |
| Semestrul iarna, 2024             | Sisteme expert                          | Curs                   |
| Univ. Tehnica Cluj-Napoca         |                                         |                        |
| Semestrul iarna, 2024             | Inteligenta artificiala (ro, en)        | Laborator              |
| Univ. Tehnica Cluj-Napoca         |                                         |                        |
| Hilary Term, 2014                 | Knowledge Representation and Reasoning  | Tutorial               |
| Universitatea Oxford              |                                         |                        |
| Semestrul iarna, 2006             | Intelligent Systems                     | Curs                   |
| Universitatea Innsbruck           |                                         |                        |
| Semestrul vara, 2005              | Introduction to Artificial Intelligence | Tutorial               |
| Universitatea Innsbruck           |                                         |                        |
| Semestrul iarna 2003              | Artificial Intelligence                 | Seminarii, laboratoare |
| Semestrul vara 2004               | Introduction to Artificial Intelligence |                        |
| Universitatea Tehnica Cluj-Napoca | Multiagent Systems                      |                        |

## Educatie

|             |                                                                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2009 – 2014 | studii doctorale, Universitatea de Tehnologie Viena, Austria<br><i>Teza: Reasoning with Forest Logic Programs</i>                                                                          |
| 2003 – 2004 | studii aprofundate, Noua generatie de calculatoare, Universitatea Tehnica Cluj-Napoca, Romania<br><i>Teza: Argumentative Agents in Health Care</i>                                         |
| 1998 – 2003 | studii inginerie, Stiinta Sistemelor si a Calculatoarelor, Calculatoare, Universitatea Tehnica Cluj-Napoca,<br><i>Teza: Agenti Flexibili pentru Executia Protocoalelor Medicale in OAA</i> |
| 1999 – 2000 | studii sociologie, Universitatea Babes-Bolyai, Cluj-Napoca, Romania                                                                                                                        |

## Premii

|             |                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021        | best paper award, ICDT 2021                                                                                                                         |
| 2018        | distinguished paper award, IJCAI 2018                                                                                                               |
| 2014        | best student paper award nomination, ISWC 2014                                                                                                      |
| 2006        | best paper award, ALPSWS 2006                                                                                                                       |
| 1997        | membru al Lotului extins de matematica                                                                                                              |
| 1993 – 1998 | premii la Olimpiada Nationala de Matematica (4 premii II, 1 premiu III si o mentiune), si la alte concursuri inter-judetene si nationale (peste 30) |

## Invited Talks

|      |                                                                                     |
|------|-------------------------------------------------------------------------------------|
| 2024 | Reasoning Web Summer School: “Fine-grained complexity of ontology mediated queries” |
|------|-------------------------------------------------------------------------------------|

## Membru in comitete de program pentru conferinte

AAAI 2025, ICCP 2024, ASPOCP 2024, Datalog 2.0 2024, RuleML&RR 2024, ICLP and NMR DC 2024, AAAI 2024, ICDT 2024, ASPOCP 2023, ICLP 2023, AAAI 2023, FOSSACS 2023, PODS 2022, ICDT 2022, EPIA 2022, RuleML 2022, Datalog 2.0 2022, ASPOCP 2022, DL 2021, KR 2021, EPIA 2021, IJCAI 2021 (senior PC member), AAAI 2021, ASPOCP 2021, DL 2020, KR 2020, IJCAI-PRICAI 2020, AAAI 2020, RuleML+RR 2020, EPIA 2020, ASPOCP 2020, OTM 2020, DL 2019, IJCAI 2019, AAAI 2019, ODBASE 2019, ASPOCP 2019, EPIA 2019, Datalog 2.0 2019, AIML 2018, IJCAI-ECAI 2018, ODBASE 2018, MIKE 2018, EPIA 2017, IJCAI 2016, TAASP 2016, ASPOCP 2015, AAAI 2015, ASPOCP 2014, ASPOCP 2013, ALPSWS 2008, NEFORS 2008, FLOW 2008

## Recenzor pentru jurnale

Logical Methods in Computer Science, Theory and Practice of Logic Programming, Information Systems Journal, Theoretical Computer Science Journal, Artificial Intelligence Journal, Archive for Mathematical Logic, Journal of Logic and Computation (JLC), International Journal of Cooperative Information Systems, Journal of Emergent Semantics

## Alte activitati de recenzare (sub-reviewing, etc.)

ICALP 2021, LICS 2021, ISWC 2020, ISWC 2019, DL 2015, RR 2012, AAAI 2012, RR 2011, ISWC 2011, RuleML 2010, DP@NMR 2010, ASWC 2009, WEBS 2009, ISWC 2009, DL 2009, AMT05, ECRA05, ESWC05, ICWS05, KCap’05, ODBASE 2005, RuleML Workshop 2005, WI 2005, WebS05, WWW/Internet2005

## Alte activitati profesionale

|                |                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|
| Iunie 2024     | membru al comisiei de evaluare CSSC 2024, Cluj-Napoca                                                                         |
| Februarie 2012 | co-organizator al workshop-ului “Computer, do my homework! Or, how computers can solve our problems ”, GiTi Tag 2012, TU Wien |

## Limbi cunoscute

|          |                |
|----------|----------------|
| Romana   | Vorbitor nativ |
| Engleza  | Fluent         |
| Germana  | Fluent         |
| Franceza | Intermediar    |

## Publicatii

### Articole in Jurnale

- Cristina Feier, Carsten Lutz, and Marcin Przybyłko. Answer counting under guarded tgds. *Log. Methods Comput. Sci.*, 19(3), 2023
- Cristina Feier, Antti Kuusisto, and Carsten Lutz. Rewritability in monadic disjunctive datalog, mmsnp, and expressive description logics. *Logical Methods in Computer Science*, 15(2):15:1–15:46, 2019
- Cristina Feier and Stijn Heymans. Reasoning with forest logic programs and f-hybrid knowledge bases. *Theory and Practice of Logic Programming*, 3(13):395–463, 2013
- S. Heymans, J. de Bruijn, L. Predoiu, C. Feier, and D. Van Nieuwenborgh. Guarded hybrid knowledge bases. *Theory and Practice of Logic Programming*, 8(3):411–429, 2008
- Dumitru Roman, Uwe Keller, Holger Lausen, Jos de Bruijn, Rubén Lara, Michael Stollberg, Axel Polleres, Cristina Feier, Christoph Bussler, and Dieter Fensel. Web Service Modeling Ontology. *Applied Ontology*, 1(1):77–106, 2005
- M. Acalovschi, D. Blendea, C. Feier, I. A. Letia, N. Ratiu, D. Dumitrascu, and A. Veres. Risk factors for symptomatic gallstones in patients with liver cirrhosis: a case control study. *American Journal of Gastroenterology*, 98(8):1856–60, 2003

### Articole in Proceedings

- Cristina Feier, Tomasz Gogacz, and Filip Murlak. Evaluating graph queries using semantic treewidth. In Graham Cormode and Michael Shekelyan, editors, *27th International Conference on Database Theory, ICDT 2024*, volume 290 of *LIPICs*, pages 22:1–22:20. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2024

- Cristina Feier, Tomasz Gogacz, and Filip Murlak. Exploiting semantic treewidth for graph queries evaluation (short paper). In *Proc. of the 15th Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2023)*, volume 3409. CEUR-WS.org, 2023
- Cristina Feier. Characterising Fixed Parameter Tractability for Query Evaluation Over Guarded TGDs. In *ICDT*, volume 220, pages 12:1–12:22, 2022
- Cristina Feier. Characterising fixed parameter tractability of query evaluation over guarded tgds (extended abstract). In Martin Homola, Vladislav Ryzhikov, and Renate A. Schmidt, editors, *Proceedings of the 34th International Workshop on Description Logics (DL 2021)*, volume 2954 of *CEUR Workshop Proceedings*, 2021
- Cristina Feier, Carsten Lutz, and Marcin Przybyłko. Answer Counting Under Guarded TGDs. In Ke Yi and Zhewei Wei, editors, *24th International Conference on Database Theory (ICDT 2021)*, volume 186, pages 11:1–11:22, 2021
- Cristina Feier, Carsten Lutz, and Marcin Przybyłko. The complexity of answer counting for ontology-mediated queries based on guarded tgds (extended abstract). In Stefan Borgwardt and Thomas Meyer, editors, *Proceedings of the 33rd International Workshop on Description Logics (DL 2020)*, volume 2663 of *CEUR Workshop Proceedings*, 2020
- Pablo Barceló, Victor Dalmau, Cristina Feier, Carsten Lutz, and Andreas Pieris. The limits of efficiency for open- and closed-world query evaluation under guarded tgds. In *39th ACM Symposium on Principles of Database Systems (PODS-20)*. ACM Press, 2020
- Pablo Barceló, Cristina Feier, Carsten Lutz, and Andreas Pieris. Ptime combined complexity and fpt in ontology-mediated querying. In *Proceedings of the 32nd International Workshop on Description Logics (DL19)*, CEUR-WS.org, 2019
- Pablo Barceló, Cristina Feier, Carsten Lutz, and Andreas Pieris. When is ontology-mediated querying efficient? In *Thirty-Fourth Annual ACM/IEEE Symposium on Logic in Computer Science (LICS)*, 2019
- Cristina Feier, Carsten Lutz, and Frank Wolter. From conjunctive queries to instance queries in ontology-mediated querying. In *Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI-ECAI 2018)*. AAAI Press, 2018
- Cristina Feier, Carsten Lutz, and Frank Wolter. From conjunctive queries to sparql queries in ontology-mediated querying. In *Proceedings of the 31st International Workshop on Description Logics*, 2018
- Cristina Feier, Carsten Lutz, and Antti Kuusisto. Rewritability in monadic disjunctive datalog, mmsnp, and expressive description logics. In *Proceedings of the 20th International Conference on Database Theory (ICDT17)*, 2017
- David Carral, Cristina Feier, and Pascal Hitzler. A practical acyclicity notion for query answering over horn-sriq ontologies. In *Proceedings of the 15th International Semantic Web Conference (ISWC16)*, 2016

- Cristina Feier, Antti Kuusisto, and Carsten Lutz. Fo-rewritability of expressive ontology-mediated queries. In *Proceedings of the 29th International Workshop on Description Logics*, volume 1577 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2016
- Cristina Feier and Thomas Eiter. Reasoning with forest logic programs using fully enriched automata (short paper). In *Proc. of 13th Int. Conference on Logic Programming and Non-monotonic Reasoning (LPNMR-2015)*, 2015
- Cristina Feier and Thomas Eiter. Reasoning with forest logic programs using fully enriched automata. In *Int. Workshop on Ontologies and Logic Programming for Query Answering (ONTOLP)*, 2015
- Cristina Feier, David Carral, Giorgio Stefanoni, Bernardo Cuenca Grau, and Ian Horrocks. The combined approach to query answering beyond the OWL 2 profiles. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI-2015)*, 2015
- Cristina Feier, David Carral, Giorgio Stefanoni, Bernardo Cuenca Grau, and Ian Horrocks. Extending the combined approach beyond lightweight description logics. In *Proceedings of the 28th International Workshop on Description Logics (DL)*, 2015
- David Carral, Cristina Feier, Bernardo Cuenca Grau, Pascal Hitzler, and Ian Horrocks. Pushing the boundaries of tractable ontology reasoning. In *Proceedings of the 13th International Semantic Web Conference (ISWC)*, 2014
- David Carral, Cristina Feier, Ana Armas Romero, Bernardo Cuenca Grau, Pascal Hitzler, and Ian Horrocks. Is your ontology as hard as you think? Rewriting ontologies into simpler DLs. In *Proceedings of the 27th International Workshop on Description Logics (DL)*, 2014
- David Carral, Cristina Feier, Bernardo Cuenca Grau, Pascal Hitzler, and Ian Horrocks. EL-ifying ontologies. In *Proceedings of the 7th International Joint Conference on Automated Reasoning (IJCAR-2014)*, 2014
- Cristina Feier. Worst-case optimal reasoning with forest logic programs. In Gerhard Brewka, Thomas Eiter, and Sheila A. McIlraith, editors, *Principles of Knowledge Representation and Reasoning: Proceedings of the Thirteenth International Conference, KR 2012, Rome, Italy, June 10-14, 2012*
- Thomas Eiter, Cristina Feier, and Michael Fink. Simulating production rules using ACTHEX. In Esra Erdem, Joohyung Lee, Yuliya Lierler, and David Pearce, editors, *Correct Reasoning - Essays on Logic-Based AI in Honour of Vladimir Lifschitz*, Lecture Notes in Computer Science 7265, pages 211–228. Springer, 2012
- Cristina Feier and Stijn Heymans. An optimization for reasoning with forest logic programs. In *Proceedings of 3rd International Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP), July 20th, 2010, Edinburgh*, 2010
- S. Heymans, C. Feier, and T. Eiter. A reasoner for simple conceptual logic programs. In Axel Polleres and Terrance Swift, editors, *Proc. of the 3rd Int. Conf. on Web Reasoning and Rule Systems (RR 2009)*, volume 5837, pages 55–70. Springer, 2009

- C. Feier and S. Heymans. Hybrid reasoning with forest logic programs. In *Proceedings of 6th Annual European Semantic Web Conference (ESWC 2009)*, volume 5554, pages 338–352. Springer, 2009
- C. Feier and S. Heymans. A sound and complete algorithm for simple conceptual logic programs. In *Proceedings of the 3rd Int. Workshop on Applications of Logic Programming to the (Semantic) Web and Web Services (ALPSWS2008)*, volume 434 of *CEUR Workshop Proceedings*, 2008
- Axel Polleres, Cristina Feier, and Andreas Harth. Rules with contextually scoped negation. In *Proceedings ESWC-2006*, volume 4011 of *LNCS*, pages 332–347. Springer, 2006
- S. Heymans, L. Predoiu, C. Feier, J. de Bruijn, and D. Van Nieuwenborgh. G-hybrid knowledge bases. In *Proc. of ICLP’06 Workshop on Applications of Logic Programming in the Semantic Web and Semantic Web Services (ALPSWS 2006)*, 2006. Best Paper Award
- C. Feier, D. Roman, A. Polleres, J. Domingue, M. Stollberg, and D. Fensel. Towards intelligent web services: Web service modeling ontology (WSMO). In *Proc. of the International Conference on Intelligent Computing (ICIC) 2005, Hefei, China, August 23-26, 2005*
- C. Feier and D. Gorgan. Hiperspatiu AOM. In *Prima editie a conferentei de interactiune Om Calculator, ROCHI 2004, Bucuresti, Romania, 23-24 Septembrie, 2004*
- I. A. Letia, C. Feier, and M. Acalovschi. Achieving competence by argumentation on rules for roles. In *Proceedings of the 5th International Workshop on Engineering Societies in an Agent World, ESAW, Toulouse, France, October 21-22, 2004*

## Articole in Colectii/Carti

- S. Heymans, L. Ma, D. Anicic, Z. Ma, N. Steinmetz, Y. Pan, J. Mei, A. Fokoue, A. Kalyanpur, A. Kershenbaum, E. Schonberg, K. Srinivas, C. Feier, G. Hench, B. Wetstein, and U. Keller. Ontology reasoning with large data repositories. In *Ontology Management: Semantic Web, Semantic Web Services, and Business Applications*, pages 89–128. Springer, 2008
- Jos de Bruijn, Marc Ehrig, Cristina Feier, Francisco Martin-Recuerda, Francois Scharffe, and Moritz Weiten. Ontology mediation, merging and aligning. In *Semantic Web Technologies*. Wiley, 2006
- M. Stollberg, C. Feier, D. Roman, and D. Fensel. Semantic web services - concepts and technology. In N. Ide, D. Cristea, and D. Tufis, editors, *Language Technology, Ontologies, and the Semantic Web*. Kluwer Publishers, 2006

## Altele: W3C Submissions

- C. Feier (editor), S. Arroyo, E. Cimpian, J. Domingue, D. Fensel, B. König-Ries, H. Lausen, A. Polleres, and M. Stollberg. Web service modeling ontology primer. W3C Member Submission, 2005

## Rapoarte Tehnice, Deliverables (Selectie)

- Cristina Feier, Thomas Eiter, Michael Kifer, Alessandro Mosca, Riccardo Rosati, Magdalena Ortiz, Mantas Šimkus, Trung-Kien Tran, and Guohui Xiao. D3.4 - Converged and optimized combinations of rules and ontologies. Technical report, ONTORULE IST-2009-231875 Project, 2011
- Cristina Feier, Hassan Aït-Kaci, Jürgen Angele, Jos de Bruijn, Hugues Citeau, Thomas Eiter, Adil El Ghali, Volha Kerhet, Eva Kiss, Roman Korf, Thomas Krekeler, Thomas Krennwallner, Stijn Heymans, Alessandro Mosca, Martín Rezk, and Guohui Xiao. D3.3 Complexity and optimization of combinations of rules and ontologies. Technical report, ONTORULE IST-2009-231875 Project, 2010
- Stijn Heymans, Jos de Bruijn, Martín Rezk, Hassan Aït-Kaci, Hugues Citeau, Roman Korf, Jörg Pührer, Cristina Feier, and Thomas Eiter. D3.2 - Initial combinations of rules and ontologies. Technical report, ONTORULE IST-2009-231875 Project, 2009
- Stijn Heymans, Cristina Feier, Jos de Bruijn, Stefan Z'øller, and Emilia Cimpian. D1.4: Process ontology query language. Technical report, SUPER IST Project 026850, 2008
- Darko Anicic, Cristina Feier, and Federico Facca. D6.3 Process ontology reasoner. Technical report, SUPER IST Project 026850, 2007
- N. Steinmetz, R. Piskac, C. Feier, U. Keller, and H. Lausen. D1.3 Report on reasoning techniques and prototype implementation for the WSML-RL and WSML-FOL languages. Technical report, RW2 project deliverable, 2007
- Darko Anicic, Cristina Feier, and Federico Facca. D6.3 Process ontology reasoner. Technical report, SUPER IST Project 026850, 2007

## Altele

- N. Bisboaca and C. Feier. O generalizare a unei probleme propusa pentru O.I.M. (A generalization of a problem proposed for the International Olympiad of Mathematics). *Gazeta Matematica seria B*, (9):491–493, 1995
- N. Bisboaca and C. Feier. O demonstratie a unei formule a lui Lagrange (A proof of a Lagrange formula). *Gazeta Matematica seria B*, (5), 1995