

Codruta Girlea

Ph.D. Student
University of Illinois at Urbana-Champaign
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Education

- 2010 – present **University of Illinois at Urbana-Champaign**
Ph.D. Student in Computer Science
Eyal Amir and Roxana Girju, advisors
- 2006 – 2010 **SNSB, Bucharest, Romania**
M.S. in Informatics
Till Mossakowski and Razvan Diaconescu, advisors
- 2004 – 2009 **Polytechnic University of Bucharest, Romania**
Engineering Diploma in Computer Science
Cristian Giumale, advisor

Experience

- 08/10 – present **University of Illinois at Urbana-Champaign, Illinois, USA**
Research/Teaching Assistant. My research as a PhD student is on knowledge representation and reasoning, machine learning, and natural language processing for decoding agents' intentions and beliefs in natural language dialogues. I worked on modeling of deceitful and manipulative intent, as well as reasoning about space. I also worked as a TA for the Introduction to Artificial Intelligence class.
- 05/16 – 08/16 **Adobe Research, San Jose, California, USA**
NLP Research Intern. Worked on building grounded scene graphs from image and caption data.
- 05/15 – 08/15 **Adobe Research, San Jose, California, USA**
NLP Research Intern. Used WordNet, Stanford CoreNLP, and Adobe proprietary parser to train models for Wh* question classification.
- 05/14 – 08/14 **6Sense, San Francisco, California, USA**
Data Science Intern. My responsibilities were building predictive models from large, sparse data.
- 09/09 – 11/09 **DFKI, Bremen, Germany**
Research Intern. Worked on an extended modal logic institution to support modal logics as part of the CASL specification language.
- 06/08 – 09/08 **Verimag Laboratory, Grenoble, France**
Research Intern. Established decidability of reachability for counter automata with octagonal constraints.
- 06/06 – 09/06 **SOFTWIN, Bucharest, Romania**
Summer Intern. My task was integrating components for an educational software system's user interface.

Research Statement

My work is at the intersection of dialogue modeling, computational pragmatics, and knowledge representation and reasoning. More specifically, I am interested in modeling intentionality, beliefs about beliefs, and belief change in dialogues. My approach combines higher level logical reasoning and probabilities, as I believe the best representation should be flexible, easy to adapt to new domains, as well as allow deep, semantic understanding. Past interests included qualitative spatial logics and formal methods for software verification.

Papers

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| NAACL 2016
(short paper) | Psycholinguistic Features for Deceptive Role Detection in Werewolf
Codruta Girlea, Roxana Girju, Eyal Amir |
| KR 2014
(short paper) | Tracking Beliefs and Intentions in the Werewolf Game
Codruta Girlea, Eyal Amir, Roxana Girju |
| STeDy 2012
(best paper award) | Probabilistic Region Connection Calculus
Codruta Girlea, Eyal Amir
in Spatio-Temporal Dynamics (2012): 62 |
| K Workshop 2010 | Abstract Semantics for K Module Composition
Codruta Girlea, Grigore Rosu
in Electronic Notes in Theoretical Computer Science, 2013 |
| TACAS 2009 | Iterating Octagons
Marius Bozga, Codruta Girlea, Radu Iosif
in Tools and Algorithms for the Construction and Analysis of Systems, Lecture Notes in Computer Science, 2009, Volume 5505/2009, 337-351 |

References

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| Roxana Girju | Associate Professor
University of Illinois at Urbana-Champaign
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