Codruta Girlea

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University of Illinois at Urbana-Champaign

Ph.D. Student in Computer Science

Education

2010 - present

05/14 - 08/14

	Eyal Amir and Roxana Girju, advisors
2006 – 2010	SNSB, Bucharest, Romania M.S. in Informatics Till Mossakowsi 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

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.

6Sense, San Francisco, California, USA

Data Science Intern. My responsibilities were building predictive models from large, sparse

data.

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 octago-

nal 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 knowledge representation, natural language processing, and machine learning. More specifically, I am interested in creating computational methods that automatically learn and reason about intentionality, beliefs about beliefs, and belief change in dialogues.

My goal is to use these methods to answer queries about the participants' beliefs and intentions, as well as predict their future decisions, dialogue contributions, and actions. Models that can be used for learning and reasoning in this scenario should be flexible, easy to adapt to new domains, and enable deep, semantic understanding. My work introduces such flexible, knowledge-rich models and computational methods for learning and reasoning with them.

Papers

(best paper award)

NAACL 2016 Psycholinguistic Features for Deceptive Role Detection in Werewolf

(short paper) Codruta Girlea, Roxana Girju, Eyal Amir

KR 2014 Tracking Beliefs and Intentions in the Werewolf Game

(short paper) Codruta Girlea, Eyal Amir, Roxana Girju

STeDy 2012 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

Service and Awards

Fellowship Saburo Muroga Endowed Fellowship (University of Illinois, 2010)

Best Paper Award Probabilistic Region Connection Calculus (STeDy 2012)

Reviewer AAAI 2017, AAAI 2016, HAI 2016, UAI 2016, AAAI 2015, NIPS 2014,

KR 2014, UAI 2014, IJCAI 2013, ECAI 2012, UAI 2012, StarAI 2012, AIJ

Teaching Assistant Introduction to Artificial Intelligence, 2012-2017

Outstanding Teaching Assistant, Spring 2015

References

Eyal Amir Associate Professor

University of Illinois at Urbana-Champaign

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Roxana Girju Associate Professor

University of Illinois at Urbana-Champaign

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Walter Chang Principal Scientist Adobe Research

wachang@adobe.com