

# Chad Crawford

## WORK EXPERIENCE

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FALL 2015-SPRING 2016

### Graduate Assistant

*at the University of Tulsa*

Administrative Graduate Assistant position in Institutional Advancement, advised by Matthew Casteel and Jason Bennefield. Help design the UTulsa website, and contribute to larger projects. Completed projects include improving the calendar events listing on digital signage and developing a WordPress plugin to create payment forms through the TouchNet uPay payment processor, potentially saving millions of dollars.

2012 - 2016

### Research

*at the University of Tulsa*

Advised by Dr. Sandip Sen at the University of Tulsa. This research led to multiple publications at the International Conference on Autonomous Agents and Multiagent Systems (AAMAS). Undergraduate work involved writing code and papers for research projects, as well as reading relevant papers in AI with emphasis on multiagent systems, norm formation and learning. Graduate work is focused on automated mechanisms to detect and mitigate cyberbullying.

SUMMER 2015

### Intern at Nutraspace LLC

<https://www.nutraspace.com/>

NutraSpace is a healthcare app company located in Dallas, Texas. Was tasked with developing a recommender system for several aspects of their app over the summer; developed a predictive Bayesian network model of user behavior to aid in recommendation.

## PUBLICATIONS

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- 2013 “*Opposites repel: the effect of incorporating repulsion on opinion dynamics in the bounded confidence model*”  
Chad Crawford, Logan Brooks, Sandip Sen  
Extended abstract at AAMAS 2013  
Oral Presentation at the TU Colloquium

- 2014 “*Evolving effective behaviors to interact with tag-based populations*”  
Osman Yucel, Chad Crawford, Sandip Sen  
Short presentation at ALA 2014, a workshop at AAMAS  
Journal publication to Connection Science

## EXTRACURRICULAR ACTIVITIES

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### International Collegiate Programming Challenge

Club to prepare for the International Collegiate Programming Competition. Also wrote algorithmic solutions to problems on HackerRank and Project Euler. Attended the competition in Fall 2015, our group ranked in the top 20 out of 80+ teams participating.

### Hackathon 2014

Hosted by the University of Tulsa. Created a web app in 24 hours that managed a music stream and a music collection.

## EDUCATION

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2015 – 2017 **Master of Science**

COMPUTER SCIENCE

**GPA: 4.0**

*The University of Tulsa*

2011 – 2015 **Bachelor of Science**

MATHEMATICS, COMPUTER SCIENCE

**GPA: 3.762**

*The University of Tulsa*

2007 – 2011 **High School Graduate**

TEXAS AND IB DIPLOMA

*Westlake Academy, Westlake, Texas*

## COMPUTER SKILLS

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Basic Experience	MATLAB, Mathematica, R Common LISP, Prolog, CLIPS, WEKA, JS, PHP, SQL
Intermediate Experience	Java, C/C++, Python, L <sup>A</sup> T <sub>E</sub> X, Emacs, Linux, Windows, HTML/CSS

## COMMUNICATION SKILLS

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CONFERENCES	Oral Presentation at the ALA Workshop at AAMAS 2014. <i>Paris, France</i>
	Oral Presentation at the UTulsa Research Colloquium – 2013 - 2015 <i>Tulsa, Oklahoma</i>
POSTERS	(Helped create) Poster at AAMAS 2013

## CODING PROJECTS

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### PROJECTS

mcagent	Agent for playing the game Minecraft. Implementing movement currently.
tacscm2015	Negotiating agent written for TAC SCM 2015.
Stereotypes	Code written for 2014 paper, simulating users playing a cooperation game.