

Benjamin J. Wright

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RESEARCH INTERESTS Deceptive AI Rebel AI Normative AI
 Logical Foundations of MAS Reasoning about Knowledge Explainable AI
 Computer Science Education Computational Logic Action Languages

CURRENT POSITION **US Naval Research Laboratory**, Washington, D.C. USA
National Research Council Postdoctoral Associate **February 2019-Present**
Working with groups at the Navy Center for Applied Research in AI (NCARAI), I am investigating Deceptive Reasoning through the context of Goal Reasoning, Explainable AI, Planning, Rebel Agents, and Normative Reasoning. This work is performed under the guidance of Dr. David W. Aha.

EDUCATION **New Mexico State University**, Las Cruces, New Mexico USA
 Ph.D., Computer Science **2018**
 • Dissertation: “*Doxastic Attitudes for Reasoning over Multi-agent Domains*”
 • Advisor: Dr. Enrico Pontelli

 University of Evansville, Evansville, Indiana USA
 B.S., Computer Science, Minor in Internet Technology **2007**

HONORS AND AWARDS *Outstanding Teaching Assistant Award* NMSU, Department of Computer Science **2013**
 East Asia Pacific Summer Institute Fellowship NSF OISE-1209446 **2012**

JOURNAL PUBLICATIONS Brandon Chisham, Ben Wright, Trung Le et al. (2011) CDAO-Store: Ontology-driven Data Integration for Phylogenetic Analysis, 98. In BMC Bioinformatics 12 (1).

CONFERENCE PUBLICATIONS Wright, Ben, Bugajska, Magdalena, Adams, William, Lawson, Ed, McCurry Malcolm, and Trafton, Greg. “Proxemic Reasoning for Group Approach”. The 12th International Conference on Social Robotics (ICSR). 2020. *Forthcoming*

 Wright, Ben and Pontelli, Enrico. “Reasoning with Doxastic Attitudes in Multi-Agent Domains”. The 31st International Florida Artificial Intelligence Research Society Conference (FLAIRS-31). 2018.

 Wright, Ben and Pontelli, Enrico. ”Problem Solving Course Development in Computer Science Curricula.” Society for Information Technology & Teacher Education International Conference. Association for the Advancement of Computing in Education (AACE), 2018

 Brandon Chisham, Enrico Pontelli, Tran Cao Son et al. (2011) CDAOStore : A Phylogenetic Repository Using Logic Programming and Web Services, 209-219. In Technical Communications of the 27th International Conference on Logic Programming (ICLP’11).

 Chisham, Brandon, Le, Trung, Pontelli, Enrico, Son, Tran, and Wright, Ben. CDAO-Store: A New Vision in Data Integration. Available from Nature Preceedings. <http://dx.doi.org/10.1038/npre.2010.4586.1> (2010)

WORKSHOP
PUBLICATIONS

Wright, Ben. "Multi-Agent Goal Recognition as Implicit Ad-Hoc Team Coordination". The Combined 4th Integrating Planning, Acting, and Execution and 8th Goal Reasoning (IntEx/GR) Workshop at the 30th International Conference on Automated Planning and Scheduling (ICAPS-20). *Forthcoming*

Wright, Ben, Floyd, Michael F., Dannenhauer, Dustin, and Aha, David W. "The Game of Fluxx: A Benchmark for Goal Reasoning". The 7th Goal Reasoning workshop at the Advances in Cognitive Systems Conference (ACS). 2019.

Wright, Ben, Roberts, Mark, Aha, David W., Brumback, Ben. "When Agents Talk Back: Rebellious Explanations". The 2nd ICAPS Workshop on Explainable Planning (XAIP-2019). 2019.

Ben Wright, Enrico Pontelli, and Tran Cao Son. Implementing Reversible Processes in Multi-agent Action Languages Using Answer Set Planning, 163-180. In Computational Logic in Multi-agent Systems XIII (CLIMA 2012).

Ben Wright. (2012) Together, Is Anything Possible? A Look at Collective Commitments for Agents, 476-480. In Technical Communications of the 28th International Conference on Logic Programming (ICLP'12). *Doctoral Consortium Paper*

POSTERS,
EXTENDED
ABSTRACTS, &
PRESENTATIONS

Wright, Ben and Edwards, Victoria. "Crowd Polarization as Environmental Alignment Heuristic". Extended Abstract at Crowdbot Workshop: Robots from Pathways to Crowds- Ethical, Legal and Safety Concerns of Robots Navigating Human Environments at the 29th IEEE International Conference on Robot & Human Interactive Communication (IEEE ROMAN-2020). August 2020.

Wright, Ben. "Reasoning with Doxastic Attitudes in Multi-Agent Domains". Presentation at the Naval Research Laboratory, Adaptive Systems Group. March 2018

Sarah Hug, Josh Sandry, Ryan Vordermann, Enrico Pontelli, and Ben Wright. 2013. DISSECT: Integrating Computational Thinking in the Traditional K-12 Curricula Through Collaborative Teaching (abstract only). In Proceeding of the 44th ACM technical symposium on Computer science education (SIGCSE '13). ACM, New York, NY, USA, 742-742. DOI: <http://dx.doi.org/10.1145/2445196.2445452>

PROFESSIONAL
ACTIVITIES

<i>Program Committee Member</i> for International Conference on Social Robotics (ICSR)	2020
<i>Program Committee Member</i> for AAMAS	2020
<i>Program Committee Member</i> for XAIP Workshop @ ICAPS	2019-2020
<i>External Reviewer</i> for 7th Conference on Advances in Cognitive Systems	2019
<i>Program Committee Member</i> for XAI Workshop @ IJCAI	2019
<i>External Reviewer</i> for EMAS Workshop @ AAMAS	2019
<i>Member</i> of US JSPS Fellows Alumni Association	2013-2016
<i>Member</i> of Text and Academic Authors Association	2013-2014
<i>Member</i> of New Mexico State University's Teaching Academy	2012-2013
<i>External Reviewer</i> for IEEE Conf. on Development & Learning & Epigenetic Robotics	2012

TEACHING
EXPERIENCE

New Mexico State University, Las Cruces, New Mexico USA
Research Assistant - Course Development **July 2017-August 2018**
Developed and lead a pilot course focused on Advanced Problem Solving skills for CS undergraduates.

Teaching Assistant - Instructor **Spring 2016, Spring 2017**
Taught Computer Science Principles as a dual-credit course at an Early-College High School.
Teacher Evaluations available upon request

Graduate Assistant - K-12 Professional Development **Summer 2016**
Developed curriculum and lead a week-long Professional Development workshop for local HS Teachers and Community College Instructors on the AP Computer Science Principles Course.

Department of Education GANN Fellow **February 2013-May 2016**

Teaching Assistant **2007-2009,2012-2013,2017**
Instructor of Record twice: Both online for undergrad courses.

NSF GK-12 DISSECT Fellow **August 2010 - May 2012**
Developed and worked with Middle School Language Arts teacher to embed Computational Thinking in coursework.

Preparing Future Faculty Assistantship **August 2007-May 2008**

ACADEMIC
ACTIVITIES

New Mexico State University, Las Cruces, New Mexico USA

Vice-President of the CS Graduate Student Organization **August 2012 - August 2013**

Secretary of the CS Graduate Student Organization **August 2011 - August 2012**

President of the CS Graduate Student Organization **August 2009 - August 2011**