Natalie Parde

University of North Texas
Department of Computer Science and Engineering
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Education	**University of North Texas** Ph.D., Computer Science and Engineering, Anticipated 2018. M.S., Computer Science, 2016. 4.0/4.0. B.S., Computer Science, 2013. *Summa Cum Laude.*
Research	**Human Intelligence and Language Technologies Laboratory** Department of Computer Science and Engineering, University of North Texas Graduate Research Assistant, August 2013–Present Undergraduate Research Assistant, June 2013–August 2013
	Software and Knowledge Engineering Laboratory Institute of Informatics and Telecommunications, N.C.S.R. Demokritos, Greece Visiting Researcher, July 2014
	Reconfigurable Computing Laboratory Department of Electrical Engineering, University of North Texas Undergraduate Research Assistant, August 2012–May 2013
	Summer Undergraduate Program in Engineering Research (SUPER) College of Engineering, University of North Texas Research Assistant, June 2012–August 2012
Awards and Fellowships	**National Science Foundation Graduate Research Fellowship** National Science Foundation, 2014
	Outstanding Ph.D. Student, Department of Computer Science and Engineering University of North Texas, 2018
	EMNLP Student Scholarship Special Interest Group on Linguistic Data and Corpus-based Approaches to NLP, 2017
	Dr. Hermann Zemlicka Award for Most Visionary Paper Gmunden Retreat on NeuroIS, 2017
	Grace Hopper Scholarship, Google, 2017

Awards and Fellowships	**Toulouse Graduate School Travel Grant**, University of North Texas, 2017
	College of Engineering Travel Grants, University of North Texas, 2017, 2014
	Golden Eagle Award, University of North Texas, 2016
	Departmental Travel Awards, Dept. of Computer Science and Engineering University of North Texas, 2016, 2015, 2013
	IJCAI Doctoral Consortium Travel Grant International Joint Conference on Artificial Intelligence/National Science Foundation, 2015
	CRA-W Workshop and Travel Scholarship CRA Committee on the Status of Women in Computing, 2016, 2015, 2014
	First Place Project, International Research-centered Summer School in Cognitive Systems and Interactive Robotics, Data and Content Analysis (IRSS), 2014
	People's Choice Project Award, IRSS, 2014
	Graduate Assistantship Tuition Scholarship, University of North Texas, 2013
	Academic Achievement Scholarship, University of North Texas, 2013
	Honors Scholar Award, UNT Honors College, 2013
	Engineering Ambassador Scholarship, College of Engineering University of North Texas, 2012
	C.J. Davidson Honors Scholarship Honors College, University of North Texas, 2011
	Achievement Scholarship, University of North Texas, 2009
	Board of Regents' Excellence Scholarship University of North Texas, 2009-2013
Publications	<u>N. Parde</u> and R. D. Nielsen. A Corpus of Metaphor Novelty Scores for Syntactically-Related Word Pairs. To appear in the *Proceedings of the 11th International Conference on Language Resources and Evaluation (LREC 2018)*. Miyazaki, Japan, May 7-12, 2018.
	<u>N. Parde</u> and R. D. Nielsen. Exploring the Terrain of Metaphor Novelty: A Regression-based Approach for Automatically Scoring Metaphors. To appear in *Proceedings of the Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18)*. New Orleans, Louisiana, February 2-7, 2018.

Publications   <u>N. Parde</u>. Reading with Robots: Towards a Human-Robot Book Discussion System for Elderly Adults. To appear in *Proceedings of the Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18) Doctoral Consortium*. New Orleans, Louisiana, February 2-7, 2018.

<u>N. Parde</u> and R. D. Nielsen. Finding Patterns in Noisy Crowds: Regression-based Annotation Aggregation for Crowdsourced Data. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2017)*. Copenhagen, Denmark, September 7-11, 2017.

N. Salma, B. Mai, K. Namuduri, R. Mamun, Y. Hashem, H. Takabi, <u>N. Parde</u>, and R. Nielsen. Using EEG Signal to Analyze IS Decision Making Cognitive Processes. In Information Systems and Neuroscience, Lecture Notes in Information Systems and Organisation.

M. Narouei, H. Khanpour, H. Takabi, R. Nielsen and <u>N. Parde</u>. Towards a Top-down Policy Engineering Framework for Attribute-based Access Control. In *Proceedings of the 22nd ACM Symposium on Access Control Models and Technologies*. Indianapolis, Indiana, June 21-23, 2017.

<u>N. Parde</u> and R. D. Nielsen. #SarcasmDetection is soooo general! Towards a Domain-Independent Approach for Detecting Sarcasm. In *Proceedings of the 30th International FLAIRS Conference*. Marco Island, Florida, May 22-24, 2017.

<u>N. Parde</u>, A. Hair, M. Papakostas, K. Tsiakas, M. Dagioglou, V. Karkaletsis, and R. D. Nielsen. Grounding the Meaning of Words through Vision and Interactive Gameplay. In *Proceedings of the 2015 International Joint Conference on Artificial Intelligence (IJCAI 2015)*, Buenos Aires, Argentina, July 25-31, 2015.

M. Papakostas, K. Tsiakas, <u>N. Parde</u>, V. Karkaletsis, and F. Makedon. An Interactive Framework for Learning User-Object Associations through Human-Robot Interaction. In *Proceedings of the 8th International Conference on PErvasive Technologies Related to Assistive Environments*, Corfu, Greece, July 1-3, 2015.

<u>N. Parde</u>, M. Papakostas, K. Tsiakas, and R. D. Nielsen. "Is It Rectangular?" Using I Spy as an Interactive, Game-Based Approach to Multimodal Robot Learning. In *Proceedings of the AAAI-15 Conference on Artificial Intelligence Student Program*, Austin, Texas, January 25-30, 2015.

<u>N. Parde</u>, M. Papakostas, K. Tsiakas, M. Dagioglou, V. Karkaletsis, and R. D. Nielsen. I Spy: An Interactive Game-Based Approach to Multimodal Robot Learning. In *Proceedings of the AAAI-15 Workshop on Knowledge, Skill, and Behavior Transfer in Autonomous Robots*, Austin, Texas, January 25, 2015.

<u>N. Parde</u> and R. D. Nielsen. Design Challenges and Recommendations for Multi-Agent Learning Systems Featuring Teachable Agents. In *Proceedings of the 2nd Annual GIFT Users Symposium (GIFTSym2)*. Pittsburgh, Pennsylvania, June 12-13, 2014

Publications	G. Mehta, K. K. Patel, <u>N. Parde</u>, and N.S. Pollard. "Data-driven mapping using local patterns." IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems 32.11 (2013): 1668-1681.
	G. Mehta, C. Crawford, X. Luo, <u>N. Parde</u>, K. Patel, B. Rodgers, A. Sistla, A.Yadav, and M. Reisner. (2013). UNTANGLED – A game environment for discovery of creative mapping strategies. In ACM Transactions on Reconfigurable Technology and Systems, Vol. 6, No.3
	G. Mehta, X. Luo, <u>N. Parde</u>, K. Patel, B. Rodgers, and A. K. Sistla. UNTANGLED - An interactive mapping game for engineering education. In *Proceedings of 2013 IEEE International Conference on Microelectronic Systems Education (MSE)*, Austin, Texas, 2013.
	A. Sistla, <u>N. Parde</u>, K. Patel, and G. Mehta. Cross-architectural study of custom reconfigurable devices using crowdsourcing. In *Proceedings of the 2013 IEEE 27th International Symposium on Parallel and Distributed Processing Workshops and PhD Forum (IPDPSW '13)*, Boston, Massachusetts, May 20-24, 2013.
Other Presentations	<u>N. Parde</u> and R. D. Nielsen. Reading with Robots: Towards an Intelligent Reading Companion that Promotes Cognitive Exercise in Older Adults. Poster at the *2017 Dallas Aging and Cognition Conference*. Dallas, Texas, January 29-30, 2017.
	R. D. Nielsen and <u>N. Parde</u>. Perceptive Emotive Spoken-Dialogue Companion Robots. Presentation at the *2016 IEEE MetroCon Conference*. Arlington, Texas, October 26, 2016.
	<u>N. Parde</u> and R. D. Nielsen. Getting to the Heart of Metaphors: Dependency-based Detection of Metaphoric Juxtapositions. Poster at the *2016 CRA-Women Graduate Cohort Workshop*. San Diego, California, April 15-16, 2016.
	<u>N. Parde</u> and R. D. Nielsen. An Exploration in Teaching Robots through "I Spy" Gameplay. Poster at the *2015 CRA-Women Graduate Cohort Workshop*. San Francisco, California, April 10-11, 2015.
	<u>N. Parde</u> and R. D. Nielsen. Improving Cognition in the Elderly via Dialogue-Based Games with Teachable Robot Agents. Poster at the *2014 CRA-Women Graduate Cohort Workshop*. Santa Clara, California, April 11-12, 2014.
Teaching and Service Work	**Guest Lecturer**, UNT (Frisco) CSCE 5300 Topic: Introduction to Big Data and Data Science March 2018
	Guest Lecturer, UNT CSCE 4310/5210 Topic: Figurative Language Processing + AAAI 2018 Highlights February 2018

Teaching and Service Work	**Site Facilitator** North American Computational Linguistics Olympiad March 2018, January 2018, January 2017, March 2016, January 2016, January 2014

Site Facilitator
North American Computational Linguistics Olympiad
March 2018, January 2018, January 2017, March 2016, January 2016, January 2014

Application Reviewer
NCWIT Aspirations in Computing Award
December 2017, December 2015

Activity Instructor, Design Your World STEM Conference for Girls
November 2017, April 2016, March 2015

Volunteer, EMNLP Conference
September 2017

Activity Leader, STEM Academy Summer Camp
July 2017, July 2016

Student Group Leader, Design Your World STEM Conference for Girls
April 2017

Guest Lecturer, UNT CSCE 4310/5210
Topic: Natural Language Processing
March 2017

Panelist, NCWIT Aspirations in Computing Ceremony
February 2016

Guest Lecturer, UNT CSCE 1010
Topic: Introduction to Robotics with NAO
November 2015, April 2015, November 2014, April 2014

Activity Leader, UNT Engineering REAL Community
October 2015

Volunteer, IJCAI Conference
July 2015

Presenter, NCWIT Aspirations in Computing Ceremony
February 2015

Judge, UNT Showcase of Undergraduate Research in Engineering
September 2013

Engineering Ambassador, UNT College of Engineering
September 2012 - May 2013

Affiliations	**President**, UNT Women in Computing
	Member, UNT Chapter, Association for Computing Machinery
	Member, Association for Computational Linguistics
	Member, Association for the Advancement of Artificial Intelligence
Students Mentored	**Keerat Baweja** Texas Academy of Mathematics and Science (TAMS) student, 2013-2015
	Adam Hair, University of North Texas (UNT) student, 2014-2015
	Jacob Brunson, TAMS student, 2015-2016
	Sara Adams, TAMS student, 2015-2016
	Noelle Davis, TAMS student, 2015-2016
	Zhaochen Gu, UNT student, 2015-2016
	Shelby Hobohm, TAMS student, 2016-2017
	Leanne Joseph, TAMS student, 2016-2017
	Yuri Castro, TAMS student, 2016
	Soujanya Geddam, TAMS student, 2016-2017
	Zaine Khoja, TAMS student, 2016
	Ryan Peterson, TAMS student, 2017-Present
	Huram-Abi Yotchoum Nzia, TAMS student, 2017-Present
	John Long, TAMS student, 2018-Present
	Skylar Werner, UNT student, 2018-Present
	Philip Zeng, TAMS student, 2018-Present
	Henry Nguyen, TAMS student, 2018-Present