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

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

Toulouse Graduate School Travel Grant, University of North Texas, 2017

College of Engineering Travel Grants, University of North Texas, 2017, 2014

Awards and Fellowships

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

N. Parde 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.

N. Parde. 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.

N. Parde 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.

Publications

N. Salma, B. Mai, K. Namuduri, R. Mamun, Y. Hashem, H. Takabi, N. Parde, 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 N. Parde. 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.

N. Parde 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.

N. Parde, 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, N. Parde, 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.

N. Parde, 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.

N. Parde, 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.

N. Parde 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

G. Mehta, K. K. Patel, N. Parde, 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, N. Parde, 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

Publications

G. Mehta, X. Luo, N. Parde, 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, N. Parde, 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

N. Parde 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 N. Parde. Perceptive Emotive Spoken-Dialogue Companion Robots. Presentation at the *2016 IEEE MetroCon Conference*. Arlington, Texas, October 26, 2016.

N. Parde 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.

N. Parde 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.

N. Parde 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

Volunteer
EMNLP Conference
September 2017

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

Activity Leader
STEM Academy Summer Camp
July 2017, July 2016

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

Teaching and Service Work

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

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

Panelist
NCWIT Aspirations in Computing Ceremony
February 2016

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

Activity Leader
UNT Engineering REAL Community
October 2015

Volunteer
IJCAI Conference
July 2015

Presenter
NCWIT Aspirations in Computing Ceremony
February 2015

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

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

Students Mentored

Keerat Baweja
Texas Academy of Mathematics and Science (TAMS) student, 2013-2015

Jacob Brunson, TAMS student, 2015-2016

Sara Adams, TAMS student, 2015-2016

Noelle Davis, TAMS 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