Dr. Nancy L. Green
https://compsci.uncg.edu/faculty/green/
Selected Publications and Open-Access Works
(Last updated Feb. 25, 2023)

Topic Key:
R Rhetoric
E Ethics
IS International Studies
AMS Argument Mining Scientific Literature   **EA Educational Applications**
A Argumentation   **HC Healthcare**
NA Narrative   **IG Information Graphics**
NLG Natural Language Generation   **DU Discourse Understanding**

Publications

Pre-press
Nancy L. Green. An Analysis of some Ethical Argumentation about Genetically Modified Food. *Argument and Computation.* **E   R A AMS**
https://content.iospress.com/articles/argument-and-computation/aac220014

2023
Nancy L. Green. The Use of Antithesis and Other Contrastive Relations in Argumentation. *Argument and Computation* 14(1):1-16.   **R A AMS**

2021
Nancy L. Green. Argumentation Schemes for Computational Models of Natural Argument: From Genetics to International Relations to Science Policy to AI Ethics. *Argument and Computation* 12(3):397-416.   **R E IS AMSEAA HCNLG**

Nancy L. Green and L. Joshua Crotts. A First Experiment Using ILP for Argument Mining. *Computational Models of Natural Argument (CMNA 2021).* CEUR-WS.org/Vol-2937/paper7.pdf.   **AMS**

Nancy L. Green. Some Argumentative Uses of the Rhetorical Figure of Antithesis in Environmental Science Policy Articles. *Computational Models of Natural Argument (CMNA 2021).* CEUR-WS.org/Vol-2937/paper3.pdf. **R AMS**

Nancy Green. An AI Ethics Course Highlighting Explicit Ethical Agents. In *Proceedings of the 2021 AAAI/ACM Conference on AI, Ethics, and Society (AIES '21)*, May 19–21, 2021, Virtual Event, USA. ACM, New York, NY, USA, 6 pages. **EAE**

Nancy L. Green. My Research Relevant to the Argument Knowledge Graph Workshop. (Abstract). First Workshop on Argument Knowledge Graphs (ArgKG2021). https://tinyurl.com/argkg2021-nancy-green **AMS**

2020
Nancy L. Green. Recognizing Rhetoric in Science Policy Arguments. *Argument and Computation* 11(3): 257-268. DOI: 10.3233/AAC-200504 **R** **EA** **A**

Nancy L. Green and L. Joshua Crotts. Argument Schemes for AI Ethics Education. *Computational Models of Natural Argument (CMNA 2020),* 41-50. CEUR-WS.org/Vol-2669/paper5.pdf. **EA** **A** **E**

Nancy L. Green and L. Joshua Crotts. Towards Automatic Detection of Antithesis. *Computational Models of Natural Argument (CMNA 2020)*, 69-73. CEUR-WS.org/Vol-2669/paper9.pdf **R**

2019
Nancy L. Green. Anticipatory Thinking with Argument Schemes. In *Proc. of the 2019 AAAI Fall Symposium: Cognitive Systems for Anticipatory Thinking*. Washington D.C., Nov. 7-9, 2019. http://ceur-ws.org/Vol-2558/ **A** **IS**

Nancy L. Green, Michael Branon, and Luke Roosje. Argument Schemes and Visualization Software for Critical Thinking about International Politics. *Argument and Computation* 10(1):41-53. **EA** **A** **IS**

2018
Nancy L. Green. Towards Mining Scientific Discourse Using Argumentation Schemes. *Argument and Computation*. 9(2):121-135. DOI 10.3233/AAC-180038. **AMS** **A**

Nancy L. Green. Proposed Method for Annotation of Scientific Arguments in Terms of Semantic Relations and Argument Schemes. In *Proc. Fifth Workshop on Argumentation Mining*, Nov. 1, 2018, at Empirical Methods in Natural Language Processing (EMNLP 2018), Association for Computational Linguistics. **AMS** **A**

Nancy L. Green, Kevin Walker, Somya Agarwal. Improving Formative Feedback on Argument Graphs. In *Proc. 31ˢᵗ Int. Florida Artificial Intelligence Research Society Conference (FLAIRS 31)*, Melbourne, FL, May 21-23, 2018. Palo Alto, AAAI Press, 447-450. **EA** **A** **HC**

2017
Nancy L. Green. Argumentation Scheme-Based Argument Generation to Support Feedback in Educational Argument Modeling Systems. *Int. J. of AI in Education*. September 2017, Volume 27, Issue 3, pp. 515–533. **EA** **HC** **A**

Green, Nancy L. Argumentation Mining in Scientific Discourse. In *Proc. 17ᵗʰ Workshop on Computational Models of Natural Argument (CMNA 17)*, co-located with Int. Conf. on AI and Law, London, UK July 16, 2017. CEUR Workshop Proceedings (CEUR-WS.org), Vol-2048, 7-13. **AMS** **A**

Green, Nancy L. Argument Schemes for Critical Thinking on Current Events. In *Proc. 17th Workshop on Computational Models of Natural Argument (CMNA 17)*, co-located with Int. Conf. on AI and Law, London, UK July 16, 2017. CEUR Workshop Proceedings (CEUR-WS.org), Vol-2048, 38-42. **IS** **EA** **A**

Green, Nancy L. Manual Identification of Arguments with Implicit Conclusions Using Semantic Rules for Argument Mining. In *Proc. Fourth Workshop on Argumentation Mining*, September 8, 2017, held at Empirical Methods in Natural Language Processing (EMNLP 2017), Association for Computational Linguistics. p. 73-78. **AMS** **A**

Camille Barot, Michael Branon, Rogelio E. Cardona-Rivera, Markus Eger, Michelle Glatz, Nancy Green, James Mattice, Colin M. Potts, Justus Robertson, Makiko Shukonobe, Laura Tatesian, Brandon R. Thorne, and R. Michael Young. 2017. Bardic: Generating Multimedia Narrative Reports for Game Logs. In *Working Notes of AIDE2017 Workshop on Intelligent Narrative Technologies*, Snowbird, UT, October 2017. (8 Pages). **NLG** **NA**

2016
Green, N. L. 2016. Implementing Argumentation Schemes as Logic Programs. In *Proc. 16th Workshop on Computational Models of Natural Argument (CMNA2016)* at Int. Joint Conference on AI (IJCAI 2016), New York. CEUR-WS.org/Vol-1876. **AMS** **A**

Green, N. L. On Recognizing Argumentation Schemes in Formal Text Genres. Abstract in E. Cabrio, G. Hirst, S. Villata and A. Wyner (Eds.), *Natural Language Argumentation: Mining, Processing, and Reasoning over Textual Arguments (Dagstuhl Seminar 16161)*, April 17-22, 2016. http://dx.doi.org/10.4230/DagRep.6.4.80. Full report here: http://libres.uncg.edu/ir/uncg/clist.aspx?id=599. **AMS** **A**

2015
Green, N.L. 2015. Identifying Argumentation Schemes in Genetics Research Articles. In *Proc. Second Workshop on Argumentation Mining*. *Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL HLT 2015), May 31-June 5, 2015, Denver, Colorado, USA.* <http://aclweb.org/anthology/W/W15/#0500> **AMS** **A**

Green, N.L. 2015. Annotating Evidence-Based Argumentation in Biomedical Text. In *Proc. 2015 Int. Workshop on Biomedical and Health Informatics, IEEE Int. Conf. on Bioinformatics and Biomedicine (BIBM 2015), Washington, D.C, Nov. 9-12, 2015*, IEEE Computer Society Press. **AMS** **A**

2014
Green, N. L. 2014. Argumentation for Scientific Claims in a Biomedical Research Article. In Cabrio, E., Villata S., and Wyner, A. (Eds.) *ArgNLP 2014: Frontiers and Connections between Argumentation Theory and Natural Language Processing*, Forli-

Cesena, Italy, July 21-25, 2014, CEUR Workshop Proceedings, Vol-1341. Available on-line: <http://ceur-ws.org/Vol-1341/>. AMS A

Nancy Green. 2014. Towards Creation of a Corpus for Argumentation Mining the Biomedical Genetics Research Literature. *Proceedings of the First Workshop on Argumentation Mining*, Baltimore, Maryland, USA, June 26, 2014. Association for Computational Linguistics, 2014. <http://aclweb.org/anthology/W/W14/#2100> AMS A

Pamela Jordan, Nancy Green, Chistopher Thomas and Susan Holm. 2014. TBI-DOC: Generating Patient & Clinician Reports from Brain Imaging Data. *Proceedings of the 8th International Natural Language Generation Conference, Philadelphia, PA, USA, June 19-21.* HC NLG

2013
Nancy L. Green and Brian Stadler. Adding coping-related strategies to biomedical argumentation in genetic counseling patient letters. *Patient Education and Counseling,* Volume 92, Issue 2 (2013), 149-152. http://dx.doi.org/10.1016/j.pec.2013.05.001 HC NLG A

2012
Nancy L. Green. Argumentation and risk communication about genetic testing. *Journal of Argumentation in Context*. Volume 1, Issue 1 (2012), 113-129. Reprinted in Rubinelli, S. and Snoeck Henkemans, A.F. (Eds.) Argumentation and Health. Vol. 14 Benjamin Current Topics 2014. Amsterdam: John Benjamins, 113-128. HC A

Nancy L. Green, Curry Guinn, and Ronnie W. Smith. Assisting Social Conversation between Persons with Alzheimer's Disease and their Conversational Partners. *Proceedings of the Third Workshop on Speech and Language Processing for Assistive Technologies, 2012 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2012),* Montreal, CA, June 8, 2012, 37-46. HC DU NLG *NA*

Nancy L. Green, Andrew Holman, Karen LaParo, and Christine Maynard. A Virtual Pre-K Classroom for Teacher Education. *Proceedings of Foundations of Digital Games 2012, Workshop on Intelligent Cinematography and Editing*, Raleigh, NC, May 29, 2012. NA EA

Nancy L. Green. An Inquiry Learning Environment for Scientific Argumentation. *Proceedings of Fourth International Conference on Computational Models of Argument*, COMMA 2012, September 10-12, 2012, Vienna. EA HC A

2011
Nancy Green, Rachael Dwight, Kanyamas Navoraphan, and Brian Stadler. Natural Language Generation of Transparent Arguments for Lay Audiences. *Argument and Computation.* Volume 2, Issue 1 (2011), Pages 23-50. HC NLG A

2010

Nancy L. Green. Representation of Argumentation in Text with Rhetorical Structure Theory. *Argumentation.* Volume 24, Issue 2 (2010), Pages 181-196. **HC** **A**

Nancy Green. Analysis of Communication of Uncertainty in Genetic Counseling Patient Letters for Design of a Natural Language Generation System. *Social Semiotics.* Volume 20 Issue 1 (2010), Pages 77 – 86. **HC** **NLG**

Barbara Di Eugenio and Nancy Green. Emerging Applications in Natural Language Generation in Information Visualization, Education, and Health Care. In Indurkhya, Nitin and Damerau Fred J. (eds). *Handbook of Natural Language Processing*, 2nd ed. Boca Raton, CRC Press, 2010, 557-575. **HC** **NLG** **IG**

2009

Nancy L. Green and Charles Bevan. Efficacy of Active Participation in Conversation with a Virtual Patient with Alzheimer's Disease. *Papers from 2009 AAAI Fall Symposium: Virtual Healthcare Interaction*, Arlington, Virginia from November 5-7, 2009. AAAI Press FS-09-07. **NA** **HC** **DU** **NLG**

2007

Nancy Green. A Study of Argumentation in a Causal Probabilistic Humanistic Domain: Genetic Counseling. *International Journal of Intelligent Systems. Special Issue: Computational Models of Natural Argumentation.* Volume 22, Issue 1 (January 2007)**,** p. 71-93. **HC** **A**

2006

Stephanie Elzer, Nancy Green, Sandra Carberry, James Hoffman. A Model of Perceptual Task Effort for Bar Charts and its Role in Recognizing Intention. I*nternational Journal on User Modeling and User-Adapted Interaction.* Volume 16, Number 1, March 2006, pp. 1 – 30. (Received James Chen 2006 Award for Best Paper.) **IG** **HC**

2005

Nancy Green. A Bayesian Network-Based Coding Scheme for Annotating Biomedical Information Presented to Genetic Counseling Clients. *Journal of Biomedical Informatics.* 38 (2005), 130-144. **HC** **NLG**

Stephanie Elzer, Sandra Carberry, Ingrid Zukerman, Daniel Chester, Nancy Green, and Seniz Demir. A Probabilistic Framework for Recognizing Intention in Information Graphics. *Proc. of International Joint Conference on Artificial Intelligence (IJCAI2005)*, July 2005, pp. 1042-1047. **IG** **HC**

Stephanie Elzer, Sandra Carberry, Daniel Chester, Seniz Demir, Nancy Green, Ingrid Zukerman, and Keith Trnka. Exploring and Exploiting the Limited Utility of Captions in Recognizing Intention in Information Graphics. *Proc. of Annual Meeting of the Association for Computational Linguistics*, June 2005, p. 223-230. **IG** **HC**

Nancy Green. Simulating Alzheimer's discourse for caregiver training in artificial intelligence-based dialogue systems. In Davis, Boyd H. (ed.). *Alzheimer talk, text and context: enhancing communication.* New York, NY: Palgrave Macmillan, 2005, 199-207. **NA** **HC** **DU** **NLG**

2004

Nancy Green. Analysis of Linguistic Features Associated with Point of View for Generating Stylistically Appropriate Text. Papers from 2004 AAAI Spring Symposium: Exploring Attitude and Affect in Text: Theories and Applications. Yan Qu, James Shanahan, and Janyce Wiebe, Program Cochairs (SS-04-07), pp. 59-62.Extended version published in Shanahan, James G., Qu, Yan, and Wiebe, Janyce (eds.), *Computing Attitude and Affect in Text: Theory and Applications*. Springer, 2005, pp. 33-40. **HC** **NLG**

Nancy L. Green, Giuseppe Carenini, Stephan Kerpedjiev, Joe Mattis, Johanna D. Moore, and Steven F. Roth. AutoBrief: an Experimental System for the Automatic Generation of Briefings in Integrated Text and Information Graphics. *International Journal of Human-Computer Studies* 2004, 61:1, 32-70. .) **IG** **NLG**

Nancy Green, William Lawton, and Boyd Davis. An Assistive Conversation Skills Training System for Caregivers of Persons with Alzheimer's Disease. Papers from *AAAI 2004 Fall Symposium on Dialogue Systems for Health Communication*, Timothy Bickmore Program Chair. (FS-04-04). AAAI Press, Menlo Park, pp. 44-49. **NA** **HC** **DU** **NLG**

Stephanie Elzer, Nancy Green, Sandra Carberry, James Hoffman. Incorporating Perceptual Task Effort into the Recognition of Intention in Information Graphics. *Proceedings of Diagrams 2004 - Third International Conference on the Theory and Application of Diagrams*, March 22-24, 2004, Cambridge Univ., pp. 255-270. **IG** **HC**

2003

Stephanie Elzer, Nancy Green, Sandra Carberry, and Kathleen McCoy. Extending Plan Inference Techniques to Recognize Intentions in Information Graphics. *Proceedings of User Modeling 2003*, p. 122-132. **IG** **HC**

Nancy Green and Boyd Davis. Dialogue Generation in an Assistive Conversation Skills Training System for Caregivers of Persons with Alzheimer's Disease. In *Papers from the 2003 AAAI Spring Symposium on Natural Language Generation in Spoken and Written Dialogue* (SS-03-06). AAAI Press, Menlo Park, CA, pp. 36-43. **NA** **HC** **DU** **NLG**

2002

Nancy Green and Jill F. Lehman. An Integrated Discourse Recipe-Based Model for Task-Oriented Dialogue. *Discourse Processes*, March-April 2002, 133-158. **NLG** **DU**

Yan Qu and Nancy Green. A Constraint-based Approach for Cooperative Information-Seeking Dialogue. *Proceedings of the Second International Natural Language Generation Conference (INLG2002)*, July 1-3, 2002, New York. pp. 136-145. **NLG** **DU**

Nancy Green. A Virtual World for Coaching Caregivers of Persons with Alzheimer's Disease. *Papers from the AAAI Workshop on Automation as Caregiver: The Role of Intelligent Technology in Elder Care.* AAAI Press, Menlo Park, CA, pp. 18-23. **NA** **HC** **DU** **NLG**

Nancy L. Green. Designing an Ontology for AI in the Narrative Arts. *Papers from the 2002 AAAI Spring Symposium on Artificial Intelligence and Interactive Entertainment*, American Association for Artificial Intelligence, March 2002, p. 39-40. **NA**

2001

Nancy L. Green. Autonomous Dialogue for Interactive Story Telling. *Papers from the 2001 AAAI Spring Symposium on Artificial Intelligence and Interactive Entertainment*, American Association for Artificial Intelligence. p. 46-49. **NA**

Nancy Green. An Empirical Study of Multimedia Argumentation. *Proceedings of the International Conference on Computational Systems, Workshop on Computational Models of Natural Language Arguments (CMNA 2001)*, May 2001. [Available as Springer Lecture Notes in Computer Science 2073, pp. 1009-18.] **IG** **A**

2000 - 1990

Nancy Green and Sandra Carberry. Interpreting and Generating Indirect Answers. *Computational Linguistics,* 25 (3): 389-435, September 1999. [Reprints available from http://acl.ldc.upenn.edu/J/J99/J99-3004.pdf] **NLG** **DU**

Nancy Green and Sandra Carberry. A Computational Model for Taking Initiative in the Generation of Indirect Answers. *User Modeling and User-Adapted Interaction*, 9(1/2): 93-132, April 1999. [Reprinted in *Computational Models of Mixed-Initiative Interaction*, Susan Haller, Alfred Kobsa, and Susan McRoy, eds., Dordrecht, Netherlands, 277-316.] **NLG**

Nancy Green, Giuseppe Carenini and Johanna Moore. A Principled Representation of Attributive Descriptions for Integrated Text and Information Graphics Presentations. *Proceedings of the Ninth International Workshop on Natural Language Generation*, Niagara-on-the-Lake, Ontario, Canada, August 5-7, 1998, pp.18-27. **NLG** **IG**

Nancy Green and Jill Fain Lehman. An Application of Explanation-Based Learning to Discourse Generation and Interpretation. *Papers from 1998 AAAI Spring Symposium on Applying Machine Learning to Discourse Processing*, pp. 33-40. AAAI Press, Menlo Park, CA. **NLG** **DU**

Nancy Green and Sandra Carberry. A Hybrid Reasoning Model for Indirect Answers. *Proceedings of the 32nd Annual Meeting of the Association for Computational*

Linguistics, pp. 58-65, June 1994. [Reprint available from
http://acl.ldc.upenn.edu/P/P94/P94-1009.pdf] **DU**

Nancy Green and Sandra Carberry. Generating Indirect Answers to Yes-No Questions.
Proceedings of the 7th International Workshop on Natural Language Generation, pp.
189-198, June 1994. **NLG**

Nancy Green and Sandra Carberry. Conversational Implicatures in Indirect Replies.
*Proceedings of the 30th Annual Meeting of the Association for Computational
Linguistics*, pp.64-71, 1992. [Reprint available from
http://acl.ldc.upenn.edu/P/P92/P92-1009.pdf] **DU**

Nancy Green.   Normal State Implicature. *Proceedings of the 28th Annual Meeting of
the Association for Computational Linguistics*, pp.89-96, Pittsburgh, Pennsylvania, 1990.
[Reprint available from http://acl.ldc.upenn.edu/P/P90/P90-1012.pdf] **DU**

Open-Access Works

(AI Ethics Debate: Educational argument diagramming software with argument schemes
for AI Ethics) https://github.com/greennl/SWED **EA** **A** **E**

(AVIZE argument diagramming software) https://github.com/greennl/AVIZE **EA** **A** **IS**

(Catalog of argumentation schemes and example of argument-annotated scientific article)
https://github.com/greennl/BIO-Arg **AMS** **A**

(Annotated scientific article and ILP files related to Green & Crotts' CMNA21 paper in
CEUR-WS.org/Vol2937/ paper7.pdf) https://github.com/greennl/BIO-Arg-ILP **AMS**