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EDUCATION

Ph.D., Linguistics, CUNY Graduate Center

M.S., Library Service, Columbia University

B.A., Classical Languages, Oberlin College

PROFESSIONAL EXPERIENCE

2008-present: Associate Professor, School of Communication & Information, Rutgers University.

2001-2008: Assistant Professor, School of Communication, Information and Library Studies, Rutgers University.

1996-2001: Associate Research Scientist, Center for Research on Information Access (CRIA) and Office of Scholarly Resources of the Health Sciences Division, Columbia University.

1987-1996: Work-Study Program, Digital Libraries Project, IBM T.J. Watson Research Center. Research on information retrieval from full text, including development and testing of a proper name recognizer and of a grammar to extract information about named entities, parsing of electronic dictionaries, building computational lexicons and natural language processing.

PUBLICATIONS

Wacholder, Nina, Valenti, Grey & Provenzano, Nicholas (Submitted to JCDL 2019). A graphical interface for the Dodge Poetry Festival Archive

Morales, Miraida & **Wacholder, Nina**. (2018). Conceptualizing the role of reading and literacy in health information practices. iConference, 2018. Sheffield, England, 3/25-3/28, 2018. To appear in Lecture Notes in Computer Science, Springer.

Liu, Jiqun & **Wacholder, Nina**. (2017). Classification systems as a visualization and navigation tool in online searching: A technique for supporting multi-cultural information seeking. SIGCR Workshop on Association for the Study of Information Science & Technology (ASIS&T). Arlington, Virginia, October 27, 2017.

Ying-Hsang Liu, **Nina Wacholder** (2017) Evaluating the impact of MeSH (Medical Subject Headings) terms on different types of searchers. Information Processing & Management, Volume 53, Issue 4, 2017, Pages 851-870.

Aakhus, Mark, Muresan, Smaranda, & **Wacholder, Nina**. (2016). An argument-ontology for a response centered approach to argumentation mining". Proceedings of the 16th Workshop on Computational Models of Natural Argument at IJCAI, New York, NY. <http://cmna.info/CMNA16/paper10.pdf>

Muresan, Smaranda, Roberto-Gonzalez Ibanez, Debanjan Ghosh & **Nina Wacholder**. (2016). Identification of nonliteral language in social media: A case study on sarcasm. Journal of the Association for Information Science and Technology. Retrieved from <http://onlinelibrary.wiley.com/doi/10.1002/asi.23624/abstract>

Wacholder, Nina, Muresan, Smaranda, Ghosh, Debanjan, & Aakhus, Mark (2014). Annotating Multiparty Discourse: Challenges for Agreement Metrics. In *Proceedings of Linguistic Annotation Workshop (LAW) VIII* (p. 120). Baltimore, MD: ACL. Retrieved from <http://www.aclweb.org/anthology/W/W14/W14-49.pdf#page=132>

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- Aakhus, Mark, Muresan, Smaranda & **Wacholder, Nina**. (2014). Integrating natural language processing and pragmatic argumentation theories for argumentation support. In D. Mo-hammed and M. Lewinski (Eds.), *Virtues of Argumentation. Proceedings of the 10th International Conference of the Ontario Society for the Study of Argumentation (OSSA), Conference Archive, Paper 1.* <http://scholar.uwindsor.ca/ossaarchive/OSSA10/papersandcommentaries/1>.
- González-Ibáñez, R., Smaranda Muresan, & **Nina Wacholder**. (2011). Identifying sarcasm in Twitter: A closer look. *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*, 581–586.
- Wacholder, Nina**. (2011). Interactive query formulation. *Annual Review of Information Science and Technology*, 45(1), 157–196.
- Smith, Catherine L. & **Nina Wacholder**. (2010). Why do users neglect suggestions? Effects of semantic relatedness and task on word recognition. Poster presented at the Association for Library and Information Science Education Annual Conference (iConference '10), Urbana-Champaign, IL.
- Smith, Catherine L. & **Nina Wacholder**. (2010). Why users don't take suggestions: Preliminary results. Poster presented at the Association for Library and Information Science Education Annual Conference (ALISE '10), Boston, MA.
- Liu, Ying Hsang, & **Wacholder, Nina** (2010). On search topic variability in interactive information retrieval. *CIRSE 2010*, 17.
- Liu, Ying-Hsang and **Nina Wacholder**. (2008). Do human-developed index terms help users? An experimental study of MeSH Terms in biomedical searching. *Proceedings of the Annual Meeting of the American Society for Information Science & Technology*. Columbus, OH, Oct. 24-28, 2008.
- Rittman, Robert and **Nina Wacholder**. (2008). Adjectives and adverbs as indicators of affective language for automatic genre detection. *Proceedings of AISB 2008 Convention, Symposium on Affective Language*. Aberdeen, Scotland, April 1-2, 2008.
- Wacholder, Nina** and Lu Liu. (2008). Assessing Term Effectiveness in the Interactive Information Access Process. *Information Processing & Management*, 44:3, 1022-1031.
- Wacholder, Nina**, Diane Kelly, Paul Kantor, Robert Rittman, Ying Sun, Bing Bai, Sharon Small, Boris Yamrom and Tomek Strzalkowski. (2007). A model for quantitative evaluation of an end-to-end question answering system. *Journal of the American Society for Information Science & Technology* 58(8): 1082-1099.
- Kelly, Diane, **Nina Wacholder**, Paul Kantor, Robert Rittman, Ying Sun, Bing Bai, Sharon Small, Boris Yamrom and Tomek Strzalkowski. (2007). Using interview data to identify evaluation criteria for interactive, analytical question-answering systems. *Journal of the American Society for Information Science & Technology*, 58(7): 1032-1043.
- Wacholder, Nina**, Lu Liu and Ying-Hsang Liu. (2006). User behavior during the book selection process. In *Proceedings of the Annual Meeting of the American Society for Information Science & Technology*. Austin, TX: American Society for Information Science and Technology.
- Wacholder, Nina** and Lu Liu. (2006). User preference: A measure of query term quality. *Journal of the American Society for Information Science & Technology*, 37(12): 1566-1580.
- Ng, Kwong Bor, Paul Kantor, Rong Tang, Bing Bai, Robert Rittman, Peng Song, Tomek Strzalkowski, Ying Sun and **Nina Wacholder**. (2006). Automated judgment of document qualities. *Journal of the American Society for Information Science & Technology*, 57(9): 1138-1154.
- Strzalkowski, Tomek, Sharon Small, Hilda Hardy, Boris Yamrom, Ting Liu, Paul Kantor, Kwong Bor Ng and **Nina Wacholder**. (2005). HITIQA: A question answering analytical tool. In *Proceedings of the 2005 International Conference on Intelligence Analysis*. McLean, VA. Available from https://analysis.mitre.org/proceedings/Final_Papers_Files/21_Camera_Ready_Paper.pdf.

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- Sun, Ying, Paul Kantor, Tomek Strzalkowski and **Nina Wacholder**. (2004). Cross evaluation -- a pilot application of a new evaluation mechanism. In *Proceedings of ASIST 2004*. Providence, RI: American Society for Information Science & Technology.
- Small, Sharon, Tomek Strzalkowski, Ting Lu, Sean Ryan, Paul Kantor, Diane Kelly, Robert Rittman and **Nina Wacholder**. (2004). HITIQA: Toward analytical question-answering. In *Proceedings of COLING 2004*. Geneva, Switzerland: Association for Computational Linguistics.
- Small, Sharon, Tomek Strzalkowski, Ting Lu, Sean Ryan, Robert Salkin, Nobuyuki Shimizu, Paul Kantor, Diane Kelly, Robert Rittman, **Nina Wacholder** and Boris Yamrom. (2004). HITIQA: Scenario-based question answering. In *Proceedings of the Workshop on Pragmatics of Question Answering at HLT-NAACL 2004*. Boston, MA. Available from <http://acl.ldc.upenn.edu/hlt-naacl2004/qa/pdf/small-hitiqa.pdf>.
- Wacholder, Nina**, Sharon Small, Bing Bai, Diane Kelly, Robert Rittman, Sean Ryan, Robert Salkin, Peng Song, Ying Sun, Liu Ting, Paul Kantor and Tomek Strzalkowski. (2004). Designing a realistic evaluation of an end-to-end interactive question-answering system. In *Proceedings of LREC 2004*, Language Evaluation and Resources Conference. Lisbon, Portugal.
- Wacholder, Nina** and Peng Song. (2003). Toward a task-based gold standard for evaluation of NP chunks and technical terms. In *Proceedings of the HLT-NAACL 2003*, Human Language Technology-North American Association for Computational Linguistics Conference. Edmonton, Alberta.
- Wacholder, Nina**, Mark Sharp, Lu Liu, Peng Song and Xiaojun Yuan. (2003). Experimental study of index terms and information access. In *Proceedings of ASIST 2003*. Long Beach, CA.
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- Wacholder, Nina** and Craig Nevill-Manning. (2001). Workshop report: The technology of browsing applications. Workshop held in conjunction with JCDL 2001. *SIGIR Forum* 35(1):16-19. Roanoke, VA. Available from <http://www.acm.org/sigir/forum/S2001-TOC.html>.
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- Wacholder, Nina**. (2001). The Intell-Index System: Using NLP techniques to organize a dynamic text browser. In *Proceedings of the Workshop on the Technology of Browsing Applications*. Roanoke, VA. Available from <http://scils.rutgers.edu/~nina/phrasebrowsing/workshop062801/>.
- Wacholder, Nina**, Judith M. Venuti, Michael Krauthammer and Pat Molholt. (2000, November). Accessing and browsing 3D anatomical images with a navigational ontology. In *Proceedings of the ASIS SIG Classification Research Workshop*. Chicago, IL: American Society for Information Science & Technology.
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- Evans, David Kirk, Judith L. Klavans and **Nina Wacholder**. (2000). Document Processing with LinkIT. In *Proceedings of the RIAO Conference*, Centre de Hautes Etudes Internationales d'Informatique Documentaire (C.I.D) and the Center for the Advanced Study of Information Systems (C.A.S.I.S.). Paris, France.
- Wacholder, Nina**, Celina Imielinska, Judith Klavans, and Pat Molholt. (1998). An ontology-based navigation system for human anatomy. In *Proceedings of the Second User Conference of the National Library of Medicine's Visible Human Project*. Bethesda, MD.
- Wacholder, Nina**. (1998). Simplex NPs sorted by head: A method for identifying significant topics within a document. In *Proceedings of the Workshop on the Computational Treatment of Nominals* (pp. 70-79). COLING-ACL '98. Montreal, Canada.
- Wacholder, Nina**, Celina Imielinska, Judith Klavans, and Pat Molholt. (1998). Semantic relations in a medical digital library. In *Proceedings of the American Digital Library Conference*. Santa Barbara, CA.
- Wacholder, Nina**, Celina Imielinska, Stephen Johnson, Ewa Soliz and Pat Molholt. (1998). Implications of 3D visualization for medical education. In *Proceedings of the Medicine Meets Virtual Reality:6 (MMVR:6) Conference*. San Diego, CA.
- Wacholder, Nina**, Yael Ravin and Misook Choi. (1997). Disambiguating proper names in text. In *Proceedings of the Applied Natural Language Processing Conference*. Washington, D.C.
- Wacholder, Nina**, Yael Ravin and Roy J. Byrd. (1994). Retrieving information from full text using linguistic knowledge. In *Proceedings of the Fifteenth National Online Meeting, Learned Information Inc.* Medford, NJ. Also IBM RC 19506, IBM T.J. Watson Research Center, Yorktown Heights, NY.
- Klavans, Judith L., Martin S. Chodorow, and **Nina Wacholder**. (1992). Building a knowledge base from parsed definitions. In *Natural Language Processing: The PLNLP Approach*, edited by Karen Jensen, George Heidorn and Steven D. Richardson. Microsoft Corporation, Seattle, WA.
- Klavans, Judith L., Martin S. Chodorow and **Nina Wacholder**. (1990). From dictionary to knowledge base via taxonomy. In *Proceedings of the Sixth Conference of the University of Waterloo Centre for the New Oxford English Dictionary and Text Research*. University of Waterloo: Waterloo, Canada.

PATENTS

- Wacholder, Nina**, Inventor. (2000). Method and system for identifying significant topics of a document. Patent number 6,167,368.
- Ravin, Yael, Misook Choi and **Nina Wacholder**, Inventors. (1998). Processing names in a text. Patent number 5,819,265.
- Byrd, Roy, Yael Ravin, and **Nina Wacholder**, Inventors. (1998). System and method for using canonical forms to develop a dictionary of names in a text. Patent number 5,832,480.

GRANTS

- Geraldine M. Dodge Foundation. Funding to design Dodge Poetry Festival archive and populate with metadata from 2012, 2014 and 2016 festivals. September 2012-present.
- Why users don't take query suggestions: The impact of semantic and visual processing on search engine interaction. **Nina Wacholder**, PI; Catherine L. Smith, Co-PI. Google Research Award, 2009-2010.
- A better book viewer: Reading a million books. PIs: Michael Lesk and **Nina Wacholder**. National Science Foundation, Oct. 2004-Sept. 2007.
- HITIQA (High Intensive Question Answering). PIs: Tomek Strzalkowski (SUNY Albany) and Paul Kantor (Rutgers). Co-PI: **Nina Wacholder**. Funded by the Advanced Research and Development Activity (ARDA) Advanced Question and Answering for Intelligence (AQUAINT) Program, May 2004-June, 2005.
- Impact of school libraries on student learning. Project Director: Ross Todd, with Carol Kuhlthau and **Nina Wacholder**. Funded by Institute of Museum and Library Services (IMLS), Jan. 2004-Dec. 2006.

Significance of properties of noun phrases for indexing applications. PI: **Nina Wacholder**. Rutgers ISATC Pilot Project, 2001-2002.

Automatic identification of significant topics in domain independent full text documents. PIs: Judith Klavans and **Nina Wacholder**. National Science Foundation, 1997-2000.

Computationally Tractable Methods for Document Analysis. PI: **Nina Wacholder**. National Science Foundation Professional Opportunities for Women in Research and Education (POWRE) Grant, 1997-2000.

SYNCHRONOUS ACTIVITIES

Co-director, Rutgers SALTS Lab (Laboratory for the Study of Applied Natural Language Technology and Society, 2008 – present.

Director, Geraldine R. Dodge Poetry Festival Archive, 2012 – present.

TEACHING

2001 – 2018: Organizing Information; Digital Libraries; Retrieving and Evaluating Electronic Information; Research Foundations; Language and Information; Seminar in Information Studies.

2000: Advanced Computational Syntax, Columbia University Computer Science Department.

PHD STUDENTS

Dissertation completed: Ying-Hsang Liu. The impact of MeSH terms on information seeking effectiveness, 2009.

Dissertation completed: Miraida Morales. The Readability of Health Information: How Adult New Readers Evaluate Consumer Health Information, 2018.

REVIEWING

Program Committee for Association for Computational Linguistics Annual Meeting, 2019; Transactions in Computational Linguistics; JASIS&T; ASIST Annual Meeting, KDIR (International Joint Conference on Knowledge Discovery); ACM TOIT (Transactions on Internet Technology); EACL (European Association of Computational Linguistics); LREC (Language Resources & Evaluation; Information Processing and Management; SIGIR.