

Smaranda Muresan
- CURRICULUM VITAE -

Office Address Data Science Institute, Columbia University
 475 Riverside Drive Room 320F
 MC 7717, New York, NY 10115

Office Phone +1 6467458471

Email smara@columbia.edu

WWW <http://www.cs.columbia.edu/~smara/>

RESEARCH INTERESTS

Natural Language Processing: computational models for understanding language in context (e.g., visual, social, multilingual) with applications to computational social science and education.

PROFESSIONAL PREPARATION

Technical University of Cluj Napoca, Romania	Computer Science	B.Sc.	1999
Columbia University, New York, NY	Computer Science	M.Sc	2002
Columbia University, New York, NY	Computer Science	PhD	2006
University of Maryland, College Park, MD	Computer Science	Postdoc	2006-2008

PROFESSIONAL EMPLOYMENT

Fall 2017 - Research Scientist, Data Science Institute, Columbia University

Fall 2017 - Adjunct Associate Professor, Department of Computer Science, Columbia University

2013-2017 Research Scientist, Center for Computational Learning Systems, Columbia University

2008 - 2013 Assistant Professor, Library and Information Science Department, School of Communication and Information, Rutgers University, New Brunswick, NJ.

2010 - 2013 Graduate Faculty, Computer Science Department, Rutgers University

2010 -2013 Co-director of the Laboratory for the Study of Applied Language Technologies and Society, Rutgers University.

HONORS and AWARDS

2019 *Amazon Scholars Program*

2018 *Best short paper award at ACL 2018*

2017 *Best paper award at SIGDIAL 2017*

2013 *Distinguished Achievements in Research Award, LIS Department, Rutgers University*

GRANTS

2019-2021 PI on Facebook Research Award “What it takes to fact-check a claim? Better Benchmarks for End-to-End Fact-Checking” (\$34,000)

- 2018-2020 PI at Columbia on an NSF EAGER award "EAGER: Collaborative Research: Automated Instruction Assistant for Argumentative Essays". (\$143,000).
- 2019-2023 Co-I at Columbia on a NIH/NIDA award "HEALing: An Innovative County-Level Public Health Response to the Opioid Epidemic in New York State" (\$86,000,000)
- 2018-2021 PI Collaboratory Fellows Fund grant to develop an interdisciplinary course "Multilingual Language Technologies and Language Diversity" (with Lydia Liu at ICLS; \$150,000).
- 2017-2021 Co-PI on the IARPA award "SCRIPTS: System for Cross-language Information Processing, Translation, and Summarization" for the MATERIAL program (\$14,000,000).
- 2014-2019 PI at Columbia on NSF award "RI: Medium: Collaborative Research: Write A Classifier: Learning Fine-Grained Visual Classifiers from Text and Images" (\$463,208). PI at Rutgers Ahmed Elgammal.
- 2014-2017 Co-PI on NSF award "Reducing Racial and Gender Achievement Gaps in STEM: Use of Natural Language Processing to Understand Why Affirmation Interventions Improve Performance" (\$1,007,993). PI Valerie Purdie Vaughn (Columbia University), Co-PIs Geoffrey Cohen (Stanford University), Jonathan Cook (Penn State University).
- 2014-2016 Co-PI on a ROADS award from Columbia University's Institute for Data Sciences and Engineering: "Reducing Racial and Gender Achievement Gaps in STEM: Use of Natural Language Processing to Understand Why Affirmation Interventions Improve Performance". PI Valerie Purdie-Vaughns (\$199,998)
- 2012-2017 Co-PI on a DARPA award "DRATS: Detecting Relations and Anomalies in Text and Speech" for the DEFT program. (total \$5,499,999). PI Owen Rambow, co-PI Kathy Mckeown, Julia Hirschberg, Mona Diab; Mari Ostendorf (PI at University of Washington)
- 2011-2014 Co-PI, NSF "Collaborative Research: Teaching Computers to Follow Verbal Instructions" (2011-2014) (total award \$999,925), PI Michael Littman, co-PI Marie desJardins
- 2008-2010 PI at Rutgers on subaward from UMD (PI Philip Resnik) for NSF SGER award, "Exploiting Alternative Packagings of Source Meaning in Statistical Machine Translation" (total grant award \$144,763)
- 2011 Co-PI, Rutgers Office of the Vice President for Research and Economic Development to build the "Laboratory for the Study of Applied Language Technologies and Society (SALTS)" (Internal Grant: \$112,000)

PROFESSIONAL ACTIVITIES

- Board Member North American Association for Computational Linguistics (NAACL) 2020-2021.
- Program Co-Chair The 21st Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2020)
- Editorial Board Computer Speech and Language Processing Journal (started 5/20)
- Co-organizer Figurative Language Processing Workshop at ACL 2020, NAACL 2018.
- Scientific Organizing Committee the New York Academy of Sciences' *New Annual Symposium on NLP/Dialog/Speech* November 2019. (based on 2019 success we will organize again 2020)
- Senior Area Chair Sentiment Analysis, Stylistic Analysis and Argument Mining Tack at ACL 2020

Area Co-Chair	Discourse and Pragmatics Track at ACL 2019
NSF Panelist	2019, 2018, 2016, 2014, 2011, 2009
Co-Editor	Special Issue of IJAIED: MARWIDE: Multidisciplinary Approaches to Reading and Writing Integrated with Disciplinary Education (2018)
Area Co-Chair	Sentiment Analysis and Argument Mining Track at ACL 2018
Area Co-Chair	Sentiment Analysis Track at NAACL 2018
Area Co-Chair	Information Extraction and NLP Applications Track at ACL 2017
Area Co-Chair	Computational Social Science and Social Media Track at EMNLP 2016
Publicity Chair	The 25th International Joint Conference on Artificial Intelligence (IJCAI-16)
Co-Organizer	The 2nd Workshop on Argumentation Mining (ArgMining 2015) at NAACL-HLT 2015
Co-Organizer	Multidisciplinary Advances in Reading and Writing for Science Education Workshop (NSF funded workshop)
Faculty Advisor	Student Research Workshop at NAACL-HLT 2015
Area Co-Chair	Second Joint Conference on Lexical and Computational Semantics (*SEM 2013)
Publicity Chair	NAACL-HLT 2012 (The 2012 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies)
Co-Editor	Special Issue on “Network-based Models of Cognitive and Social Dynamics of Language”. <i>Computer Speech and Language</i> . Volume 25 (3), 2011.
Co-organizer	TextGraphs-4: Graph-based Methods for Natural Language Processing. Workshop at the Association for Computational Linguistics Conference (ACL/IJCNLP 2009)
Expert Evaluator	Killam Research Fellowships, Canada Council (http://canadacouncil.ca/prizes/killam/) (by invitation,06/2010-09/2010).
Panelist	”What It’s Like to Work at My Institution” Faculty Panel at ”Preparing Future Faculty Workshop” at Columbia University on April 16, 2010.

PATENTS

2003	<i>System and Method of Generating Dictionary Entries</i> . Judith Klavans and Smaranda Muresan, Columbia University, New York, NY. Serial No 398,535.
------	--

INVITED TALKS

05/13/2019	<i>Computational Models for Understanding Language in Social Context</i> . Invited Talk at Amazon
10/24/2017	<i>Identification of Non-literal Language in Social Media: A Case Study on Sarcasm</i> . Invited Talk at Bloomberg.
9/27/2017	<i>Argument Mining for Assessing Students’ Persuasive Essays</i> . Workshop on ”Connecting Language, Interaction and Education in Digital Environments”, Penn State University.
9/22/2016	<i>Computational Models of Understanding Language in Social Context</i> at the Social Computing Workshop organized by the Army Research Lab.

- 4/19/2016 *Argumentation Mining In Online Interactions: Opportunities and Challenges*. Invited Talk at Dagstuhl Seminar on “Natural Language Argumentation: Mining, Processing, and Reasoning over Textual Arguments”.
- 3/16/2016 *Computational Models of Understanding Language in Context*. Invited Talk at Hearst Corporation Meeting with Hearst’s Executive Director of R&D and Director of Data Science.
- 2/24/2014 *Identification of Non-literal Language in Social Media: A Case Study on Sarcasm*. Yahoo! Research Lab, NYC
- 5/22/2014 *Investigating the Content of Values-Affirmation Interventions: A Data-Driven Approach to Discovering Topics in Affirmation Essays*. APS Symposium *Computational Methods for Linguistic Insights into Personality and Behavior*, May 22, 2015.
- 7/30/2012 *Context-dependent Language Understanding*. Rutgers’s Big Data Meeting.
- 2/9/2012 *Identifying Sarcasm in Twitter*. Columbia University Speech Group Talks (joined work with Roberto Gonzalez Ibanez and Nina Wacholder).
- 11/11/2011 *Learning for Deep Language Understanding*. CUNY Graduate Center.
- 07/01/2010 *Learnable Constraint-based Grammars for Deep Language Understanding*. Educational Testing Services, Princeton, NJ.
- 05/27/2010 *Learnable Constraint-based Grammars for Deep Language Understanding*. IBM T.J. Watson Research Center
- 04/13/2010 *Learnable Constraint-based Grammars for Deep Language Understanding*. Yahoo Machine Learning Seminar, Department of Computer Science, Rutgers University.
- 10/29/2009 *Are those fighting words? The expression of opposition in online text* Ischool, Syracuse University.(together with Nina Wacholder).
- 08/05/2009 *National Language Processing at Rutgers* National University of Singapore.
- 10/02/2008 *A Computational Model for Language Learning and Understanding*. The Rutgers University Center for Cognitive Science, Rutgers University.
- 02/26/2008 *Learning Constraint-Based Grammars from Representative Data*. The Center for Language and Speech Processing, Johns Hopkins University.
- 03/01/2006 *Inducing Constraint-based Grammars using a Domain Ontology*. Computational Linguistics and Information Processing Laboratory (CLIP) at the University of Maryland Institute for Advanced Computer Studies (UMIACS).
- 10/22/2004 *Learning Constraint-based Grammars using a Small Semantic Treebank*. Computational Linguistics Group, Department of Computer Science, University of Toronto.

PUBLICATIONS

Tuhin Chakrabarty , Debanjan Ghosh, Smaranda Muresan and Nanyun Peng (2020).”*R³: Reverse, Retrieve, and Rank for Sarcasm Generation with Commonsense Knowledge*”. Proceedings of ACL 2020.

Christopher Hidey, Tuhin Chakrabarty, Tariq Alhindi, Siddharth Varia, Kriste Krstovski, Mona Diab and Smaranda Muresan (2020). ”*DeSePtion: Dual Sequence Prediction and Adversarial*

Examples for Improved Fact-Checking”. Proceedings of ACL 2020.

Ramy Eskander, Francesca Callejas, Elizabeth Nichols, Judith Klavans and Smaranda Muresan (2020). ”MorphAGram, Evaluation and Framework for Unsupervised Morphological Segmentation”. Proceedings of LREC 2020.

Ghosh, Debanjan; Musi, Elena; Upasani, Kartikeya; and Muresan, Smaranda (2020) ”Interpreting Verbal Irony: Linguistic Strategies and the Connection to the Type of Semantic Incongruity,” Proceedings of the Society for Computation in Linguistics: Vol. 3 , Article 9.

Efsun Sarioglu Kayi, Vishal Anand, Smaranda Muresan (2020). ”MultiSeg: Parallel Data and Subword Information for Learning Bilingual Embeddings in Low Resource Scenarios”. Proceedings of the 1st Joint Workshop of SLTU (Spoken Language Technologies for Underresourced languages) and CCURL (Collaboration and Computing for Under-Resourced Languages) (SLTU-CCURL 2020)

Tuhin Chakrabarty, Christopher Hidey, Smaranda Muresan, Kathy McKeown and Alyssa Hwang (2019). AMPERSAND: Argument Mining for PERSuasive oNline Discussions. In Proceedings of EMNLP 2019.

Tuhin Chakrabarty, Smaranda Muresan (2019). ColumbiaNLP at SemEval-2019 Task 8: The Answer is Language Model Fine-tuning. In Proceedings of the 13th International Workshop on Semantic Evaluation, NAACL-HLT , Minneapolis, USA.

Zhuoran Liu, Shivali Goel, Mukund Yelahanka Raghuprasad, Smaranda Muresan (2019). Columbia at SemEval-2019 Task 7: Multi-task Learning for Stance Classification and Rumour Verification. In Proceedings of the 13th International Workshop on Semantic Evaluation , NAACL-HLT , Minneapolis, USA, June 2019

Tuhin Chakrabarty, Kilol Gupta, Smaranda Muresan (2019). Pay ”Attention” to your Context when Classifying Abusive Language. In Proceedings of 3rd Abusive Language Workshop, ACL 2019 Florence, Italy.

YanJun Gao, Alex Driban, Brennan Xavier McManus, Elena Musi, Patricia Davies, Smaranda Muresan and Rebecca J. Passonneau (2019). Rubric Reliability and Annotation of Content and Argument in Source-Based Argument Essays. In Proceedings of the 14th Workshop on Innovative Use of NLP for Building Educational Applications, ACL 2019, Florence, Italy.

Debanjan Ghosh, Alexander Fabbri, Smaranda Muresan (2018). Sarcasm Analysis using Conversation Context. *Computational Linguistics* Special Issue on *Language in Social Media: Exploiting Discourse and other Contextual Information*.

Elena Musi, Debanjan Ghosh, Smaranda Muresan (2018). ChangeMyView Through Concessions: Do Concessions Increase Persuasion? *Discourse and Dialogue*, volume 9, number 1 .

Olivia Winn, Smaranda Muresan (2018). ‘Lighter’ Can Still Be Dark: Modeling Comparative Color Descriptions. Proceedings of ACL 2018 (**best short paper award**).

Elena Musi, Tariq Alhindi, Manfred Stede, Leonard Kriese, Smaranda Muresan and Andrea Rocci (2018). A Multi-layer Annotated Corpus of Argumentative Text: From Argument Schemes to Discourse Relations. *Proceedings of Language Resources and Evaluation Conference (LREC 2018)*

Debanjan Ghosh, Smaranda Muresan (2018) “With 1 follower I must be AWESOME :P.” Exploring the Role of Irony Markers in Irony Recognition. *Proceedings of the International Conference on Web and Social Media (ICWSM) (short paper)*.

- Tariq Alhindi, Savvas Petridis, and Smaranda Muresan (2018). Where is your evidence: Improving fact-checking by justification modeling. Proceedings of *The First Workshop on Fact Extraction and Verification (FEVER)*, 2018.
- Tuhin Chakrabarty, Tariq Alhindi and Smaranda Muresan (2018). Robust Document Retrieval and Individual Evidence Modeling for Fact Extraction and Verification. Proceedings of *The First Workshop on Fact Extraction and Verification (FEVER)* (shared task), 2018.
- Elena Musi, Mark Aakhus, Smaranda Muresan, Andrea Rocci, Manfred Stede (2017). From Theory to practice: the annotation of argument schemes. *Proceedings of the European Conference on Argumentation (ECA)*.
- Debanjan Ghosh, Alexander Fabri, Smaranda Muresan (2017). The Role of Conversation Context for Sarcasm Detection in Online Interactions. *Proceedings of SIGDIAL*. **(best paper award)**
- Elena Musi, Debanjan Ghosh, Mark Aakhus, Smaranda Muresan, Nina Wacholder (under review). Building an ontology of (dis)agreement space for argument mining. *Position paper for the SIGDIAL/SEMDIAL 2017 Joint Special Session on Negotiation Dialog*.
- Debanjan Ghosh, Aquila Khanam, Smaranda Muresan (2016). Coarse-grained Argumentation Features for Scoring Persuasive Essays. *Proceedings of ACL 2016 (short papers)*
- Elena Musi, Debanjan Ghosh, Smaranda Muresan (2016). Towards Feasible Guidelines for the Annotation of Argument Schemes. *Proceedings of the Argumentation Mining Workshop at ACL 2016*.
- Olivia Winn, Madhavan Kidambi, Smaranda Muresan (2016). Detecting Visually Relevant Sentences for Fine-Grained Image Classification. *Proceedings of the Vision and Language Workshop at ACL 2016*
- Smaranda Muresan, Roberto Gonzalez-Ibanez, Debanjan Ghosh, Nina Wacholder (2016). Identification of Non-literal Language in Social Media: A Case Study on Sarcasm. *Journal of the American Society for Information Science and Technology (JASIST)*.
- Debanjan Ghosh, Weiwei Guo, Smaranda Muresan (2015). Sarcastic or Not: Word-Embeddings to Predict the Literal or Sarcastic Meaning of Words. In *Proceedings of EMNLP , 2015*, Lisbon, Portugal.
- J. MacGlashan, M. Babes-Vroman, M. desJardins, M. Littman, S. Muresan, S. Squire, S. Tellex, D. Arumugam, and L. Yang (2015). Grounding English commands to reward functions. In *Robotics: Science and Systems , 2015*
- Travis Riddle, Sowmya Bhagavatula, Weiwei Guo, Smaranda Muresan, Geoff Cohen, Jonathan Cook and Valerie Purdie-Vaughns (2015). Mining a Written Values Affirmation Intervention to Identify the Unique Linguistic Features of Stigmatized Groups. *Proceedings of Educational Data Mining, 2015*.
- Debanjan Ghosh, Smaranda Muresan, Nina Wacholder, Mark Aakhus, Matthew Mitsui (2014). Analyzing Argumentative Discourse Units in Online Interactions. *First Workshop on Argumentation Mining at ACL 2014*
- Gaurav Kharkwal, Smaranda Muresan (2014). Surprisal as a Predictor of Essay Quality. *The 9th Workshop on Innovative Use of NLP for Building Educational Applications*, at ACL 2014
- Smaranda Muresan (2013). Ontology-based Semantic Interpretation via Grammar Constraints. In

- A. Oltramari, L. Qin, P. Vossen, E. Hovy (eds) *New Trends of Research in Ontologies and Lexical Resources*. Springer Series on Theory and Applications of Natural Language Processing.
- Nina Wacholder, Debanjan Ghosh, Mark Aakhus, Smaranda Muresan (2014). Annotating Multiparty Discourse: Challenges for Agreement Metrics. The 8th Linguistic Annotation Workshop (LAW VIII 2014), at COLING 2014.
- Smaranda Muresan, Judith Klavans (2013). Inducing Terminologies from Text: A Case Study for the Consumer Health Domain. *Journal of the American Society for Information Science and Technology (JASIST)*., 64(4); pp 727-744.
- Mark Aakhus, Smaranda Muresan, Nina Wacholder (2013). Integrating Natural Language Processing and Pragmatic Argumentation Theories for Argumentation Support. *Proceedings of the Ontario Society for the Study of Argumentation: VIRTUES of ARGUMENTATION (OSSA 2013)*.
- Debanjan Ghosh, Smaranda Muresan (2012). Relation Classification using Entity Sequence Kernels. *Proceedings of the 24th International Conference on Computational Linguistics (COLING 2012)* (short paper - 8 pages) [25% acceptance rate]
- Hao Li, Yu Chen, Heng Ji, Smaranda Muresan, Dequan Zheng (2012). Combining Social Cognitive Theories with Linguistic Features for Multi-genre Sentiment Analysis. *Proceedings of 26th Pacific Asia Conference on Language, Information, and Computation (PACLIC 26)*. [best paper nomination]
- Smaranda Muresan (2012). Search Space Properties for Learning a Class of Constraint-based Grammars. *Proceedings of TAG+11: The 11th International Workshop on Tree Adjoining Grammars and Related Formalisms*.
- Choonkyu Lee, Smaranda Muresan, Karin Stromswold (2012). Analysis of Referring Expressions in Narrative Discourse. *NAACL-HLT 2012 Workshop on Computational Linguistics for Literature* [30% acceptance rate]
- James MacGlashan, Monica Babeş-Vroman, Kevin Winner, Ruoyuan Gao, Marie desJardins, Michael Littman, Smaranda Muresan (2012). Learning to Interpret Natural Language Instruction. *Proceedings of AAAI-2012 Workshop on Grounding Language for Physical Systems*. (extended version of NAACL-HTL Workshop paper).
- Monica Babeş-Vroman, James MacGlashan, Ruoyuan Gao, Kevin Winner, Marie desJardins, Michael Littman, Smaranda Muresan (2012). Learning to Interpret Natural Language Instructions. *Proceedings of NAACL-HLT Workshop on Semantic Interpretation in an Actionable Context*.
- Smaranda Muresan (2011). “Learning for Deep Language Understanding”. *Proceedings of 22nd International Joint Conference on Artificial Intelligence (IJCAI-11)* [17% acceptance rate]
- Roberto Gonzalez-Ibanez, Smaranda Muresan and 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: short papers* [25% acceptance rate].
- Monojit Choudhury, Samer Hassan, Animesh Mukherjee, Smaranda Muresan. Editorial: Network based Models of Cognitive and Social Dynamics of Human Languages. *Computer Speech and Language: Special Issue on Network-based Models of Cognitive and Social Dynamics of Language*. Volume 25 (3), July 2011.
- Smaranda Muresan (2010). Ontology-based Semantic Interpretation as Grammar Rule Constraints. *Proceedings of The 11th International Conference on Computational Linguistics and Intelligent*

Text Processing. Lecture Notes in Computer Science. 6008, Springer. [22.5% acceptance rate].

Smaranda Muresan (2010). A Learnable Constraint-based Grammar Formalism. *Proceedings of 23rd International Conference on Computational Linguistics (COLING) 2010*. [22.2% acceptance rate]

Philip Resnik, Chris Dyer, Smaranda Muresan (2010). Lattice Decoding for Hierarchical Models. In Joe Olive, ed., *Handbook of Natural Language Processing and Machine Translation*, Springer.

Smaranda Muresan (2008). Learning to Map Text to Graph-based Meaning Representations via Grammar Induction. *Proceedings of the COLING 2008 Workshop TextGraphs-3: Graph-based Algorithms for Natural Language Processing*. [31.5% acceptance rate]

Christopher Dyer, Smaranda Muresan and Philip Resnik (2008). Generalizing Word Lattice Translation. *Proceedings of the Association for Computational Linguistics, ACL 2008*. [25% acceptance rate]

Smaranda Muresan and Owen Rambow (2007). Grammar Approximation by Representative Sublanguage: A New Model for Language Learning. *Proceedings of the Association for Computational Linguistics, ACL 2007*, Prague, Czech Republic. [22% acceptance rate]

Smaranda Muresan (2004). Inducing Constraint-based Grammars using a Domain Ontology. *Proceedings of the Ninth AAAI/SIGART Doctoral Consortium*.

Smaranda Muresan, Tudor Muresan, and Judith Klavans (2004). Inducing Constraint-based Grammars from a Small Semantic Treebank. *AAAI Spring Symposium on Language Learning: An Interdisciplinary Perspective*, Stanford University.

Smaranda Muresan, Samuel D. Popper, Peter T. Davis, and Judith L. Klavans (2003). Building a Terminological Database from Heterogeneous Definitional Sources. *Proceedings of the National Conference on Digital Government Research*, Boston, Massachusetts.

Smaranda Muresan and Judith L. Klavans (2002). A Method for Automatically Building and Evaluating Dictionary Resources. *Proceedings of the Language Resources and Evaluation Conference (LREC 2002)*.

Smaranda Muresan, Tudor Muresan, and Rodica Potolea (2002). Data Flow Coherence Constraints for Pruning the Search Space in ILP Tools. *International Journal of Artificial Intelligence Tools*, volume 11(2), 2002.

Judith Klavans and Smaranda Muresan (2001). Evaluation of DEFINDER: A System to Mine Definitions from Consumer-oriented Medical Text. *Proceedings of The ACM+IEEE Joint Conference on Digital Libraries (JCDL 2001)*.

Smaranda Muresan, Tudor Muresan, and Rodica Potolea (2001). Data flow criteria in ILP tools. *Proceedings of IEEE 13th International Conference on Tools with Artificial Intelligence (ICTAI 2001)*.

Judith Klavans and Smaranda Muresan (2001). Evaluation of the DEFINDER System for Fully Automatic Glossary Construction. *Proceedings of the American Medical Informatics Association Symposium (AMIA 2001)*.

Smaranda Muresan, Evelyne Tzoukermann, and Judith Klavans (2001). Combining Linguistic and Machine Learning Techniques for Email Summarization. *Proceedings of the Conference on Computational Natural Language Learning (CoNLL-2001), held as a Workshop at the 39th Annual meeting of the Association for Computational Linguistics (ACL-2001)*.

Noemie Elhadad, Min-Yen Kan, Simon Lok, Smaranda Muresan (2001). PERSIVAL: personalized summarization over multimedia health-care information. *In Proceedings of The First ACM+IEEE Joint Conference on Digital Libraries, JCDL 2001*. (demo presentation)

Judith Klavans and Smaranda Muresan (2000). DEFINDER: Rule-based Methods for the Extraction of Medical Terminology and their Associated Definitions from On-line Text. *Proceedings of the American Medical Informatics Association Symposium (AMIA 2000)*.

RECENT SERVICE TO DEPARTMENT, UNIVERSITY AND OTHER PUBLIC BODIES

- 2017- DSI Education Committee; DSI MS admission committee; Faculty Advisor for DSI Master Students
- 2014-2018 Columbia Senate: Research Officers Committee (ROC) (Acting Chair for January 1, 2017- June 30, 2017); member of the Alumni Relations Committee and External Relations Committee.
- 2010 - 2013 Co-Director of the Laboratory for the Study of Applied Language Technologies and Society (SALTS), together with Nina Wacholder (LIS) and Mark Aakhus (Communication Department)
- 2011 - 2013 Co-Founder for the New Jersey Natural Language Processing Group (with colleagues from AT&T Labs Research, ETS, Montclair State University, Siemens Research)
- Fall 2011 Organizer of the Yahoo! Data Sciences Seminar at Rutgers University
- Fall 2011 Executive Steering Committee, Information Technology and Informatics (ITI) Program

TEACHING

- Spring 2020 COMS 4995 Multilingual Language Technologies and Language Diversity (Co-taught with Isabelle Zaugg, cross-listed between Computer Science and the Institute for Comparative Literature and Society, part of the Collaboratory Program)
- Spring 2018 *COMS E6998: Data Science in Context: Computational Models of Social Meaning*. Data Science Institute and Department of Computer Science, Columbia University
- Fall 2017 ENGI E4800.001 Data Science Capstone and Ethics; Data Science Institute, Columbia University
- Spring 2017 ENGI E4800.001 Data Science Capstone and Ethics; Data Science Institute, Columbia University
- Fall 2016 *COMS E6998: Data Science in Context: Computational Models of Social Meaning*. Data Science Institute and Department of Computer Science, Columbia University
- Spring 2015, 2014 *COMS E6998: Computational Models of Social Meaning*. Department of Computer Science, Columbia University
- 2014-2020 Projects in CS for several Master and undergraduate students

RESEARCH ADVISING

Debanjan Ghosh, PhD student (Rutgers) [PhD thesis advisor; currently research scientist at ETS]

Olivia Winn, PhD student (Columbia) [PhD thesis advisor]

Tariq Alhindi, PhD student (Columbia) [PhD thesis advisor]

Ramy Eskander, PhD student (Columbia) [PhD thesis advisor]

Elena Musi, Postdoctoral Researcher, Columbia [currently faculty at Liverpool University]

Travid Riddle, Postdoctoral Researcher, Columbia, [currently Research Scientist at the National Institute of Health]

Efsun Kayi, Postdoctoral Researcher, Columbia [currently at IBM]

Francesca Callejas, undergraduate, Columbia University

Serina Chung, undergraduate, REU Columbia [currently PhD student at Stanford U.]

Alex Fabri, undergraduate, REU Columbia [currently Phd student at Yale U.]

Brennan McManus, undergraduate, REU, Columbia

Elizabeth Nichols, undergraduate, Columbia university.