

**JAMIE C. MACBETH**  
**CURRICULUM VITAE**

**CONTACT INFORMATION**

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Smith College  
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**EDUCATION**

2010	Ph.D. Computer Science	University of California, Los Angeles
2000	M.S. Physics	Stanford University
1995	B.S. Physics	Brown University

## POSITIONS HELD

Start	End	Position
7/2018	Present	Assistant Professor, Department of Computer Science, Smith College, Northampton, MA
6/2017	Present	Visiting Scientist, MIT, Cambridge, MA
9/2015	8/2018	Assistant Professor of Computer Science, Fairfield University, Fairfield, CT
1/2014	8/2015	Postdoctoral Research Fellow, Clemson University, Clemson, SC
8/2011	8/2013	Postdoctoral Research Associate, MIT, Cambridge, MA
6/2010	8/2011	Lead Software Engineer Consultant, Fortiss Inc., Los Angeles, CA
9/2004	6/2010	Graduate Research Assistant, University of California, Los Angeles, CA
6/2004	12/2008	Software Engineer Consultant, Neurotone, Inc., Redwood City, CA
8/2001	4/2004	Software Engineer, Euphonix, Inc., Palo Alto, CA
9/2000	6/2001	Senior Software Engineer Consultant, Sony Music Entertainment, Inc., San Francisco, CA
1/2000	9/2000	Software Developer Consultant, Liquid Audio, Inc., Redwood City, CA
9/1995	3/2000	Graduate Research Assistant, Stanford University, Stanford, CA

## HONORS, AWARDS, AND FELLOWSHIPS

2019-2020	Martin Luther King, Jr. Visiting Scholar, MIT
Summer 2018	Summer Faculty Research Fellow, Office of Naval Research
2017-2018	Alpha Sigma Nu Graduate Teacher of the Year, Fairfield University
2017-2018	Elizabeth DeCamp McInerny Chair in Health Sciences, Fairfield University
2014-2015	Provost Postdoctoral Fellowship, Clemson University
Spring 2012	Semi-finalist, 100K Entrepreneurship Competition, MIT
2004-2008	US Department of Education Graduate Assistance in Areas of National Need (GAANN) Graduate Fellowship, University of California, Los Angeles
Spring 2006	Ford Foundation Fellowship Program, Honorable Mention

## PUBLICATIONS

### *Peer-Reviewed Conference and Workshop Proceedings*

- [C1] Jamie C. Macbeth, Dagmar Gromann, “Towards Modeling Conceptual Dependency Primitives with Image Schema Logic,” *Proceedings of The Fourth Workshop on Cognition And Ontologies (CAOS IV) at The Fifth Joint Ontology Workshop (JOWO’19)*, Graz, Austria, September 23-25, 2019
- [C2] Minyue Dai, Sandra Grandic, Jamie C. Macbeth, “Linguistic Variation and Anomaly in Comparisons of Human and Machine-Generated Image Captions” *Proceedings of The Seventh Annual Conference on Advances in Cognitive Systems*, Cambridge, Massachusetts, August 2-5, 2019, Under Review
- [C3] Dagmar Gromann, Jamie C. Macbeth, “Crowdsourcing Image Schemas,” *Proceedings of The 4th Image Schema Day (ISD4)*, Bozen-Bolzano, Italy, December 13-15, 2018

- [C4] Jamie C. Macbeth, Mark Roberts, “Exploring Connections Between Primitive Decomposition of Natural Language and Hierarchical Planning,” *The Sixth Annual Conference on Advances in Cognitive Systems (ACS-18)*, Stanford, California, August 18-20, 2018.
  
- [C5] Jamie C. Macbeth, Sandra Grandic, “Crowdsourcing a Parallel Corpus for Conceptual Analysis of Natural Language,” *The 5th AAI Conference on Human Computation and Crowdsourcing (HCOMP 2017)*, Quebec City, QC, Canada, October 24-26, 2017.
  
- [C6] Jamie C. Macbeth, “Conceptual Primitive Decomposition for Knowledge Sharing via Natural Language,” *Workshop on Interaction-Based Knowledge Sharing (WINKS) at The 3rd Joint Ontology Workshop (JOWO’17)*, Bolzano-Bozen, Italy, September 21-23, 2017.
  
- [C7] Jamie C. Macbeth, Dagmar Gromann, Maria M. Hedblom “Image Schemas and Conceptual Dependency Primitives: A Comparison,” *Image Schema Day III (ISD3) at The 3rd Joint Ontology Workshops (JOWO’17)*, Bolzano-Bozen, Italy, September 21-23, 2017.
  
- [C8] Xiang Zhang, Jonathan Tong, Nishant Vishwamitra, Joseph Mazer, Robin Kowalski, Hongxin Hu, Feng Luo, Elizabeth Whittaker, Jamie Macbeth, Edward Dillon, “Cyberbullying Detection with a Pronunciation Based Convolutional Neural Network,” *The 15th IEEE International Conference on Machine Learning and Applications (ICMLA’16)*, Anaheim, CA, December 18-20, 2016.
  
- [C9] Terra Blevins, Robert Kwiatkowski, Maha Ahmed, Jamie Macbeth, Kathleen McKeown, Desmond Patton and Owen Rambow, “Automatically Processing Tweets from Gang-Involved Youth: Towards Detecting Loss and Aggression”, *the 26th International Conference on Computational Linguistics (COLING 2016)*, Osaka, Japan, December 13-16, 2016.
  
- [C10] Desmond Patton, Kathy McKeown, Owen Rambow, Jamie Macbeth, “Using Natural Language Processing and Qualitative Analysis to Intervene in Gang Violence: A Collaboration Between Social Work Researchers and Data Scientists,” *Bloomberg Data for Good Exchange (D4GX 2016)*, New York City, New York, September 25, 2016.

- [C11] Jamie Macbeth, Marydjina Barionnette, “The Coherence of Conceptual Primitives,” *The Fourth Annual Conference on Advances in Cognitive Systems (ACS-16)*, Chicago, Illinois, June 23-26, 2016.
  
- [C12] David Piorkowski, Scott Fleming, Christopher Scaffidi, Margaret M. Burnett, Irwin Kwan, Austin Henley, Jamie Macbeth, Charles Hill, Amber Horvath, “To Fix or to Learn? How Production Bias Affects Developers’ Information Foraging during Debugging”, *International Conference on Software Maintenance and Evolution (ICSME)*, Bremen, Germany, September 29-October 1, 2015.
  
- [C13] Jamie Macbeth, Hanna Adeyema, Henry Lieberman, Christopher Fry, “Script-Based Story Matching for Cyberbullying Prevention,” *CHI 2013 Extended Abstracts: ACM SIGCHI Conference on Human Factors in Computing Systems*, Paris, France, April, 2013
  
- [C14] Fei Gao, Andrew S. Clare, Jamie C. Macbeth, M. L. Cummings, “Modeling the Impact of Operator Trust on Performance in Multiple Robot Control,” *2013 AAAI Spring Symposium: Trust and Autonomous Systems*, Stanford, California, March, 2013
  
- [C15] Jamie Macbeth, Missy Cummings, Luca Bertuccelli, Amit Surana, “Interface Design for Unmanned Vehicle Supervision through Hybrid Cognitive Task Analysis,” *Proceedings of HFES 2012: 56th Annual Meeting of the Human Factors and Ergonomics Society*, Boston, Massachusetts, October, 2012
  
- [C16] Armen Mkrtchyan, Jamie Macbeth, Erin Solovey, Jason Ryan, Missy Cummings, “Using Variable-Rate Alerting to Counter Boredom in Human Supervisory Control,” *Proceedings of HFES 2012: 56th Annual Meeting of the Human Factors and Ergonomics Society*, Boston, Massachusetts, October, 2012
  
- [C17] Andrew Clare, Jamie Macbeth, Missy Cummings, “Mixed-Initiative Strategies for Real-time Scheduling of Multiple Unmanned Vehicles,” *American Control Conference*, Montreal, Canada, June, 2012
  
- [C18] Jamie Macbeth, Majid Sarrafzadeh, “Grouped Variable Model Selection for Heterogeneous Medical Signals,” *The Fifth International Conference on Body Area Networks (BodyNets 2010)*, Corfu Island, Greece, September, 2010

- [C19] Jamie Macbeth, Majid Sarrafzadeh, “Shrinking Symbolic Regression Over Medical and Physiological Signals,” *2nd International Conference on Signal Processing Systems (ICSPS 2010)*, Dalian, China, July, 2010
  
- [C20] Jamie Macbeth, Majid Sarrafzadeh, “Health Econometrics: Respiration-Oxygenation Correlation through Spectral Models” *The 21st IASTED International Conference on Modelling and Simulation (MS 2010)*, Banff, Alberta, Canada, July, 2010
  
- [C21] Myung-Kyung Suh, Florence-Joy Figueras, Victor Chen, Wen-Sao Hong, Jamie Macbeth, Ani Nahapetian, Lorraine Evangelista, Majid Sarrafzadeh, “WANDA B.: Weight and Activity with Blood Pressure Monitoring System for Heart Failure Patients,” *2nd International Workshop on Interdisciplinary Research on E-Health Services and Systems (IREHSS 2010)*, Montreal, Quebec, Canada, June, 2010
  
- [C22] Jamie Macbeth, Majid Sarrafzadeh, “Press the Cancel Button! A Performance Evaluation of Scalable In-Network Data Aggregation” *2009 International Conference on Mobile, Wireless and Optical Communication (MWOC 2009)*, Jeju Island, South Korea, December, 2009
  
- [C23] Jamie Macbeth, Majid Sarrafzadeh, “Link Scheduling for Scalable Data Aggregation,” *The 18th International Conference on Computer Communications and Networks (ICCCN)*, San Francisco, California, August, 2009
  
- [C24] Jamie Macbeth, Majid Sarrafzadeh, “Scalable Medium Access Control for In-Network Data Aggregation,” *The 5th SIGACT-SIGOPS International Workshop on Foundations of Mobile Computing (Dial M-POMC)*, Toronto, Ontario, Canada, August, 2008
  
- [C25] Philip Brisk, Jamie Macbeth, Ani Nahapetian, and Majid Sarrafzadeh “A Dictionary Construction Technique for Code Compression Systems with Echo Instructions,” *ACM/SIGPLAN Conference on Languages, Compilers, and Tools for Embedded Systems*, Chicago, Illinois, June, 2005
  
- [C26] Philip Brisk, Foad Dabiri, Jamie Macbeth, and Majid Sarrafzadeh “Polynomial Time Graph Coloring Register Allocation,” *14th International Workshop on Logic and Synthesis*, Lake Arrowhead, California, June, 2005

*Journal and Magazine Articles*

- [J1] Ioana Baldini, Clark Barrett, Antonio Chella, Carlos Cinelli, David Gamez, Leilani H. Gilpin, Knut Hinkelmann, Dylan Holmes, Takashi Kido, Murat Kocaoglu, William F. Lawless, Alessio Lomuscio, Jamie C. Macbeth, Andreas Martin, Ranjeev Mittu, Evan Patterson, Donald Sofge, Prasad Tadepalli, Keiki Takadama, Shomir Wilson, Reports of the AAAI 2019 Spring Symposium Series, *AI Magazine*, Volume 40, Number 3, Fall 2019, pp 59-66. <https://doi.org/10.1609/aimag.v40i3.5181>
- [J2] Aditi Das, Jamie C. Macbeth, and Caitlin Elsaesser, “Online School Conflicts: Expanding the Scope of Restorative Practices with a Virtual Peace Room”, *Contemporary Justice Review: Issues in Criminal, Social, and Restorative Justice*, October 1, 2019, DOI: 10.1080/10282580.2019.1672047
- [J3] Leilani Gilpin, Jamie Macbeth, and Evelyn Florentine, “Monitoring Scene Understanders with Conceptual Primitive Decomposition and Commonsense Knowledge,” *Advances in Cognitive Systems*, Volume 6, pp. 45-63, 2018.
- [J4] Desmond Upton Patton, Jamie Macbeth, Sarita Schoenebeck, Katherine Shear, and Kathleen McKeown, “Accommodating Grief on Twitter: An Analysis of Expressions of Grief Among Gang Involved Youth on Twitter Using Qualitative Analysis and Natural Language Processing,” *Biomedical Informatics Insights*, April 3, 2018, DOI: 10.1177/1178222618763155.
- [J5] Desmond U. Patton, Jeffrey Lane, Patrick Leonard, Jamie Macbeth, Jocelyn Smith-Lee, “Gang violence on the digital street: Case study of a South Side Chicago gang member’s Twitter communication,” *New Media and Society*, January 25, 2016, DOI: 10.1177/1461444815625949.
- [J6] Margaret Burnett, Simone Stumpf, Jamie Macbeth, Stephann Makri, Laura Beckwith, Irwin Kwan, Anicia Peters, William Jernigan, “GenderMag: A Method for Evaluating Software’s Gender Inclusiveness” *Interacting with Computers*, Volume 28, Issue 6, pp. 760-787, 2016, DOI: 10.1093/iwc/iwv046.
- [J7] Desmond U. Patton, Ninive Sanchez, Dale Fitch, Jamie Macbeth, Patrick Leonard “ ‘I Know God’s Got a Day 4 Me:’ Violence, Trauma and Coping Among Gang-Involved Twitter Users,” *Social Science Computer Review*, December 13, 2015, DOI: 10.1177/0894439315613319.

- [J8] Desmond Upton Patton, Patrick Leonard, Loren Cahill, Jamie Macbeth, Shantel Crosby, Douglas-Wade Brunton, “ ‘Police took my homie I dedicate my life 2 his revenge’: Twitter tensions between gang-involved youth and police in Chicago” *Journal of Human Behavior in the Social Environment*, Volume 26, Number 3-4, pp. 310-324, January, 2016, DOI: 10.1080/10911359.2015.1127738
- [J9] M L Cummings, Luca Bertuccelli, Jamie Macbeth, Amit Surana, “Task Versus Vehicle-based Control Paradigms in Multiple Unmanned Vehicle Supervision by a Single Operator,” *IEEE Transactions on Human-Machine Systems*, Volume 44, Number 3, pp. 353-361, June, 2014

### *Book Chapters*

- [B1] Jamie C. Macbeth, Michael Lee, Jung Soo Kim, Tony Zhang, “Children who Code”, in Lelia Green (ed.), *The Routledge Companion to Digital Media and Children*, Routledge, In Preparation
- [B2] Jamie C. Macbeth, “Automated Narrative Understanding Technologies for Intervention Against Cyberbullying”, in Heidi Vandebosch and Lelia Green (ed.), *Narratives in Research and Interventions on Cyberbullying among Young People*, pp. 161--177, Springer, Berlin/Heidelberg, 2019.
- [B3] Desmond Upton Patton, Patrick Leonard, Loren Cahill, Jamie Macbeth, Shantel Crosby, Douglas-Wade Brunton, “‘Police took my homie I dedicate my life 2 his revenge’: Twitter Tensions Between Gang-Involved Youth and Police in Chicago”, in Sharon E. Moore, A. Christson Adedoyin, Michael A. Robinson (ed.), *Police and the Unarmed Black Male Crisis: Advancing Effective Prevention Strategies*, Routledge, London, 2017.
- [B4] Edward Dillon, Jamie Macbeth, Robin Kowalski, Elizabeth Whittaker, Juan E. Gilbert, “‘Is This Cyberbullying or Not?’: Intertwining Computational Detection with Human Perception (A Case Study)”, in D. Nicholson (ed.), *Advances in Human Factors in Cybersecurity (Advances in Intelligent Systems and Computing 501)*, pp 337-345, Springer International Publishing, Switzerland, 2016. DOI: 10.1007/978-3-319-41932-9\_28.

### *Patents*



- [PT1] Sarrafzadeh and Macbeth, “*System for Analyzing Physiological Signals to Predict Medical Conditions,*” US Patent Application 20120221310, August 30, 2012
- [PT2] Kearby, Levine, Modeste, Dayson, and Macbeth, “*Aural Rehabilitation System and a Method of Using the Same,*” US Patent Application 20060093997, May 4, 2006
- [PT3] Kearby, Levine, Modeste, Dayson, and Macbeth “*Aural Rehabilitation System and a Method of Using the Same.*” US Patent Application 20060029912, February 9, 2006

### *Technical Reports*

- [TR1] Jamie Macbeth, Manal Habib, Armen Mkrtychyan, Missy Cummings, “Multi-Autonomous Vehicle Insertion-Extraction System (MAVIES),” Humans and Automation Laboratory Technical Report HAL2011-04, MIT, Cambridge, Massachusetts, December, 2011

### *Posters*

- [P1] Elizabeth Whittaker, Robin Kowalski, Edward Dillon, Jamie Macbeth, “Is it or Isn't it? Cyberbullying in Everyday Life”, Presented at *The 62nd Annual Meeting of the Southeastern Psychological Association (SEPA)*, New Orleans, Louisiana, March 30-April 2, 2016.
- [P2] Robin Kowalski, Allison Toth, Edward Dillon, Jamie Macbeth, Alex Herzog, Jason Thatcher, “Cyberbullying Among Individuals with Disabilities,” Presented at *The Annual Meeting of the Society of Southeastern Social Psychologists (SSSP)*, Winston-Salem, North Carolina, October 23-24, 2015.
- [P3] Jamie Macbeth, Hanna Adeyema, Henry Lieberman, Christopher Fry, “Script-Based Story Matching for Cyberbullying Prevention,” *ACM SIGCHI Conference on Human Factors in Computing Systems*, Paris, France, April, 2013
- [P4] Jamie Macbeth, “Testing Helioseismic Holography”, *The Ninth Solar and Heliospheric Observatory Workshop (SOHO-9): Helioseismic Diagnostics of Solar Convection and Activity*, Stanford, California, July 12-15, 1999

*News Media Coverage*

- [N1] “SOE Computer Science Prof’s Research Helps Fight Cyberbullying,” News@Fairfield, Fairfield University, December 14, 2016
- [N2] “In Effort To Curb Violence In Chicago, A Professor Mines Social Media,” Audie Cornish, All Tech Considered, National Public Radio, September 9, 2016
- [N3] “Professor Studies Twitter Threats of Girl Gang Killer in Chicago,” Frank Main, The Chicago Sun Times, June 5, 2016
- [N4] “Chicago’s Murder Problem,” Ford Fessenden and Haeyoun Park, nytimes.com, May 27, 2016
- [N5] “This Algorithm Will Try to Predict Which Gang Threats on Twitter Turn into IRL Violence,” Alex Zimmerman, Vice.com, December 11, 2015
- [N6] “When Social Media Fuels Gang Violence,” Cheryl Corley, National Public Radio, October 7, 2015
- [N7] “Gangs Increasingly Challenge Rivals Online with Postings, Videos,” Annie Sweeney, the Chicago Tribune, August 17, 2015

**TEACHING AND STUDENT ADVISING**

*Teaching Assignments*

<u>Semester</u>	<u>Course</u>	<u>Name</u>
Spring 2019	CS256	Intelligent User Interfaces, Smith College
Spring 2019	CS330	Seminar in Database Systems, Smith College

Fall 2018	CS252	Algorithms, Smith College
Fall 2018	CS390	Seminar in Artificial Intelligence: Natural Language Understanding, Smith College
Spring 2018	CS131	Fundamentals of Programming (3 Sections), Fairfield University
Fall 2017		Pretenure sabbatical (Fairfield University)
Spring 2017	CS131	Fundamentals of Programming (3 Sections), Fairfield University
Fall 2016	CS101	Introduction to Computing, Fairfield University
Fall 2016	SW407	Java for Programmers, Fairfield University
Fall 2016	SW550 /SW551	Capstone Project I/II, Fairfield University
Spring 2016	CS131	Fundamentals of Programming (2 Sections), Fairfield University
Fall 2015	SW407	Java for Programmers, Fairfield University
Fall 2015	CS101	Introduction to Computing, Fairfield University

### *Curriculum Development*

[CD1] CS256, “Intelligent User Interfaces”, Smith College. New and complete course design.

- [CD2] CS101, “Introduction to Computing”, Fairfield University. New and complete course design with focus on debugging-first programming game, and introduction to computing systems.
- [CD3] CS131, “Fundamentals of Programming”, Fairfield University. Course re-design based on an autograder Web site for submission, testing, and grading of programming assignments.
- [CD4] CS152B, “Digital Design Project Laboratory”, University of California Los Angeles, course re-design based on new Xilinx evaluation board, devised harness for automated testing of VHDL design assignments.

### *Student Advising*

- [SA1] Sandra Grandic, M.S., Software Engineering, Fairfield University, Fall 2018, Thesis Title: “A Survey of Recent Advances in Deep Learning for Natural Language Processing: Focusing on Adversarial Examples in Question Answering for Machine Comprehension.”
- [SA2] Jung Soo Kim, M.S., Software Engineering, Fairfield University, Spring 2018, Thesis Title: “Data Analysis of Gidget: A Debugging Computer Programming Game.”
- [SA3] Evangelos Boliakis, Duy Creel, William McDonnell, Senior Design Project, Fairfield University (EG390, EG391), Fall 2015 - Spring 2016. Project title: “Jarvis 2.0: Understanding Stories through Artificial Intelligence.”
- [SA4] Armen Mkrtchyan, Ph.D., MIT, 2015. Thesis title: “Modeling Distributed Product Development Processes in Small and Medium Enterprises.”
- [SA5] Alexander Stimpson, Ph.D., MIT, 2014. Thesis title: “A Machine Learning Approach to Modeling and Predicting Training Effectiveness.”
- [SA6] Andrew Clare, Ph.D., MIT, 2013. Thesis title: “Modeling Real-Time Human-Automation Collaborative Scheduling of Unmanned Vehicles”
- [SA7] Alina Griner, M. Eng., MIT, 2012. Thesis title: “Human-RRT Collaboration in UAV Mission Path Planning.”

*Teaching Assistantships*

<u>Semester</u>	<u>Course</u>	<u>Name</u>
Fall 2007	CS180	Introduction to Algorithms University of California, Los Angeles
Spring 2006	CS152B	Digital Design Project Laboratory University of California, Los Angeles
Winter 2006	CS152B	Digital Design Project Laboratory University of California, Los Angeles
Fall 2005	CS152B	Digital Design Project Laboratory University of California, Los Angeles
Fall 1997	PH41	Mechanics Stanford University

**PRESENTATIONS**

*Invited Talks*

- [T1] “Generating Linguistic Variation: An Exploration of Augmented Transition Network-based Natural Language Generators,” Research Lunch Seminar, Code 5514, Navy Center for Applied Research in Artificial Intelligence, Naval Research Laboratory, Washington, DC, July 17, 2018
- [T2] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Department of Computer Science, University of Massachusetts, Lowell, MA, April 10, 2018
- [T3] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Department of Computer Science, Smith College, Northampton, MA, April 4, 2018
- [T4] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Michtom School of Computer Science, Brandeis University, Waltham, MA, March 14, 2018

- [T5] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Department of Computer Science and Electrical Engineering, University of Maryland, Baltimore County, Baltimore, MD, March 6, 2018
- [T6] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Mathematics and Computer Science Department, Wheaton College, Norton, MA, February 23, 2018
- [T7] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Department of Computer Science and Engineering, University of Notre Dame, Notre Dame, IN, May 18, 2017
- [T8] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Department of Information Systems, University of Maryland Baltimore County, Baltimore, MD, March 7, 2017
- [T9] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” College of Information Studies, University of Maryland, College Park, MD, March 2, 2017
- [T10] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” School of Information Studies, Syracuse University, Syracuse, NY, February 20, 2017
- [T11] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Computer Science Department Seminar, University of Rhode Island, Kingston, RI, November 18, 2016
- [T12] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Computer Science Department Seminar, Middlebury College, Middlebury, VT, March 12, 2015
- [T13] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Department of Computer Sciences Seminar, Florida Institute of Technology, Melbourne, FL, March 5, 2015

- [T14] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Computer Science Department Seminar, Clarkson University, Potsdam, NY, February 27, 2015
  
- [T15] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Computer Science Department Seminar, Fairfield University, Fairfield, Connecticut, February 25, 2015
  
- [T16] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Weapons and Systems Engineering Department Seminar, United States Naval Academy, Annapolis, Maryland, February 20, 2015
  
- [T17] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Computer Science Department Seminar, Williams College, Williamstown, Massachusetts, February 16, 2015
  
- [T18] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Computer Science Department Seminar, Worcester Polytechnic Institute, Worcester, Massachusetts, February 13, 2015
  
- [T19] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Computer Science Department Seminar, University of Alabama, Tuscaloosa, Alabama, January 16, 2015
  
- [T20] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Institute for Human and Machine Cognition, Ocala, Florida, January 6, 2015
  
- [T21] “Talking Users into Helpful Actions,” Department of Computer Science Seminar, University of Massachusetts Boston, Boston, Massachusetts, November 19, 2014
  
- [T22] “Crowdsourcing Deep Thoughts: Meeting the Challenges of In-depth Language Understanding Systems for Smarter Social Media,” Michigan Interactive and Social Computing Seminar, University of Michigan, Ann Arbor, Michigan, November 11, 2014

- [T23] “Talking Users into Helpful Actions,” School of Computing Seminar, Clemson University, Clemson, South Carolina, October 24, 2014
- [T24] “Talking Users out of Harmful Actions,” Department of Computer Science Colloquium, Dartmouth College, Hanover, New Hampshire, January 8, 2014
- [T25] “Story Matching Technologies for Cyberbullying Prevention,” IBM Services Research Symposium, IBM T. J. Watson Research Center, Yorktown Heights, New York, October 22, 2013
- [T26] “Story Matching Technologies for Cyberbullying Prevention,” MIT Lincoln Laboratory, Lexington, Massachusetts, June 3, 2013
- [T27] “Attention States of Vigilance,” Smart Adaptive Reliable Teams for Persistent Surveillance (SMARTS) MURI Annual Review Meeting, MIT, Cambridge, Massachusetts, February 28, 2013
- [T28] “Interfaces and Models for Human-in-the-loop Supervisory Control,” Volpe National Transportation Systems Center, Cambridge, Massachusetts, January 10, 2013
- [T29] “Interfaces and Models for Human-in-the-loop Supervisory Control,” Department of Computer Science Colloquium, Tufts University, Medford, Massachusetts, November 8, 2012
- [T30] “Nuclear Regulatory Commission Boredom Study Attention State Analysis,” Humans and Automation Lab Seminar, MIT, Cambridge, Massachusetts, July 12th, 2012
- [T31] “Systems and Models for Multi-Autonomous Vehicle Insertion and Extraction,” United Technologies Research Center, East Hartford, Connecticut, December 7, 2011
- [T32] “Human-Robot Interactions in Persistent Surveillance,” Smart Adaptive Reliable Teams for Persistent Surveillance (SMARTS) MURI Annual Review Meeting, MIT, Cambridge, Massachusetts, December 1, 2011
- [T33] “Data Collection, Aggregation and Modeling for Medical Monitoring Systems,” Humans and Automation Lab Seminar, MIT, Cambridge, Massachusetts, August 31, 2010



### *Conference and Workshop Presentations*

- [CW1] Jamie Macbeth, “Where do Goals Come From?”, The Alliance to Advance Liberal Arts Colleges (AALAC) Workshop: “Embodied Cognition: An Interdisciplinary Collaboration”, Bryn Mawr College, Bryn Mawr, PA, October 18, 2019.
- [CW2] Desmond Patton, Jamie Macbeth, Sarita Schoenbeck, Katherine Shear, Kathleen McKeown, “Accommodating Grief on Twitter: An Analysis of Expressions of Grief Among Gang Involved Youth in Chicago Using Qualitative Analysis and Natural Language Processing,” Society for Social Work and Research 23rd Annual Conference - Ending Gender Based, Family and Community Violence , San Francisco, CA, January 16-20, 2019
- [CW3] Franchi, M., Kowalski, R. M., Dillon, J., Macbeth, J., & Bush, M., “Race/Ethnicity and Cyberbullying Victimization and Perpetration”, The Annual Meeting of the Society of Southeastern Social Psychologists, Raleigh, NC, October 19-20, 2018
- [CW4] Dillon, E., Macbeth, J., Kowalski, R. M., Whittaker, E., & Gilbert, J. (2016). “ ‘Is This Cyberbullying or Not?’: Intertwining Computational Detection with Human Perception (A Case Study).” The Annual Meeting of the International Conference on Applied Human Factors and Ergonomics, Orlando, FL, July 27-31, 2016.
- [CW5] Sila Sayan, Carlo Mannino, Jamie Macbeth, Hanna Adeyema, Henry Lieberman, Christopher Fry, “Script-Based Story Matching to Encourage Empathy for Social Change,” *Designing Social Media for Change*, CHI 2013, Paris, France, April, 2013
- [CW6] Luca Bertuccelli, Amit Surana, Jamie Macbeth, Missy Cummings, “Vehicle vs. Task-based UAV Control Paradigms,” *Quantitative Modeling and Simulation, Quantitative Methods in Defense and National Security (QMDNS 2012)* George Mason University, Fairfax, Virginia, April 30-May 1, 2012

### *Guest Lectures*

- [GL1] “Binary Multiplication,” COMP 220, Computer Organization and Assembly Language, Wheaton College, North Andover, MA, February 23, 2018

- [GL2] “Introduction to Javascript,” CSC3950, Web Development I, Merrimack College, North Andover, MA, February 14, 2018
- [GL3] “Introduction to Computer Science and Software Engineering,” EG31, Fairfield University School of Engineering, Fairfield, CT, November 3rd, 2016
- [GL4] “Debugging in Python,” IS585, Fairfield University Dolan School of Business, Fairfield, CT, June 18th, 2016
- [GL5] “An Object-Oriented Linked-List Implementation,” CS201, Middlebury College, Middlebury, VT, March 13, 2015
- [GL6] “Crowdsourcing Conceptual Language Representations,” HCC 831, Fundamentals of Human-Centered Computing, Clemson University, Clemson, SC, September 2, 2014

## SERVICE

### *Conference and Workshop Organizing*

- [O1] Local Chair, *The Seventh Annual Conference on Advances in Cognitive Systems (ACS-19)*, Cambridge, MA, August 2-5, 2019
- [O2] Organizer, *Workshop on Story-Enabled Intelligence*, at The Seventh Annual Conference on Advances in Cognitive Systems (ACS-19), Cambridge, MA, August 2-5, 2019
- [O3] Organizer, *Symposium on Story-Enabled Intelligence*, at The Association for the Advancement of Artificial Intelligence Spring Symposium Series, Stanford, CA, March 25-27, 2019

### *Program Committees*

- [PC1] Program Committee Member, *The Seventh Annual Conference on Advances in Cognitive Systems (ACS-19)*

- [PC2] Program Committee Member, *The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-19)*
- [PC3] Program Committee Member, *The Joint Ontology Workshops (JOWO 2018)*
- [PC4] Program Committee Member, *The 27th International Conference on Computational Linguistics (COLING 2018)*
- [PC5] Program Committee Member, *ACM International Conference on Intelligent User Interfaces (IUI 2018)*
- [PC6] Program Committee Member, *Workshop on Interaction-based Knowledge Sharing (WINKS 2017)*
- [PC7] Program Committee Member, *(Computational) Context. Why It's Important, What It Means, Can It Be Computed?* AAAI Spring Symposium, AAAI 2017, February, 2017.
- [PC8] Program Committee Member, *Conference on Human Factors in Computing Systems (CHI 2013)*, Works-In-Progress Section
- [PC9] Program Committee Member, *3rd International Conference on Application and Theory of Automation in Command and Control Systems (ATACCS 2013)*

### *Reviewing*

- [R1] Reviewer, *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2020)*, Papers Track, October-November 2020
- [R2] Reviewer, *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2018)*, Papers Track, October-November 2017
- [R3] Reviewer, *ACM Transactions on Computer-Human Interaction*, June 2016 to present
- [R4] Reviewer, *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2016)*, Papers and Notes, October 2015

- [R5] Reviewer, *ACM Richard Tapia Celebration of Diversity in Computing (Tapia Conference 2014)*, Poster Session, September 2013
- [R6] Reviewer, *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2013)*, Papers and Notes, October 2012
- [R7] Reviewer, *Interacting with Computers*, 2012 - 2014

### *Academic Service*

- [AS1] Summer Working Group on Performance Gaps in Gateway STEM Courses, Clark Science Center, Smith College, June 2019 - August 2019
- [AS2] Faculty Search Committee: Data Science Position, Fairfield University School of Engineering, September 2016 - February 2017
- [AS3] U.S. Diversity Subcommittee of Undergraduate Curriculum Committee, Fairfield University, September 2016 - May 2018
- [AS4] University Athletics Committee, Fairfield University, September 2016 - May 2018
- [AS5] Curriculum Committee, Fairfield University School of Engineering, January 2016 - May 2018
- [AS6] Professor of the Practice Faculty Search Committee, Fairfield University School of Engineering, September 2015 - February 2016
- [AS7] Member and Postdoctoral Representative, Committee for Race and Diversity, MIT, September 2012 - September 2013
- [AS8] Postdoctoral Scholar, Ernest Everett Just Academic Mentorship Program, Dartmouth College, 2012 - 2016

### *Career Mentoring Conferences*

- [CM1] Panelist, New Faculty Information Session, Fairfield University, Fairfield, Connecticut, August 31, 2016
  
- [CM2] Broadening Participant in Artificial Intelligence Workshop, at *The Twenty-Eighth Association for the Advancement of Artificial Intelligence Conference (AAAI-14)*, Organized by CRA-W/CDC, Quebec City, Quebec, Canada, July, 2014
  
- [CM3] Academic Careers Workshop for Underrepresented Minorities, organized by CMD-IT, CDC, CAHSI and AccessComputing Alliance, the Allen Center, Northwestern University, Evanston, Illinois, March 2014
  
- [CM4] Career Mentoring Workshop, organized by the Computing Research Association (CRA), the Fairmont Hotel, Washington, District of Columbia, February, 2012,
  
- [CM5] Future Faculty Workshop, “A Workshop to Promote Diversity and Gender Balance for Prospective Faculty,” organized by the National Science Foundation ADVANCE Program, Northeastern University, Boston, Massachusetts, March, 2012

## **PROFESSIONAL ORGANIZATIONS**

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|--------------|---|
| 2014-Present | Member, Association for the Advancement of Artificial Intelligence (AAAI) |
| 2011-Present | Member, Association for Computing Machinery (ACM)                         |
| 2011-Present | Member, Institute of Electrical and Electronics Engineers (IEEE)          |
| 2011-Present | Member, Human Factors and Ergonomics Society (HFES)                       |