Jena D. Hwang

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EDUCATION

UNIVERSITY OF COLORADO, BOULDER
Ph.D. in Linguistics and Cognitive Science — Dec 2014
M.A. in Linguistics — May 2008
   Advisor: Martha Palmer

CALVIN COLLEGE
B.A. in Computer Science — May 2002
B.S. in Biochemistry — May 2002

PROFESSIONAL EXPERIENCE

RESEARCH ENGINEER | Allen Institute for AI
   Sep 2019 – present | Seattle, WA

RESEARCH ASSOCIATE | Institute for Human & Machine Cognition
   Sep 2015 – August 2019 | Ocala, FL

POSTDOCTORAL RESEARCHER | University of Colorado Boulder
   Aug 2014 – Jun 2015 | Boulder, CO

SOFTWARE DEVELOPER | Innovative Software Solutions
   May 2002 - May 2005 | Grand Rapids, MI

AWARDS

2015 Robert J. Glushko Dissertation Prize
International dissertation award by Cognitive Science Society and Glushko-Samuelson Foundation

PUBLICATIONS

DISSERTATION

1. **Jena D. Hwang**. Identification and Representation of Caused Motion Constructions. Ph.D. Dissertation, University of Colorado at Boulder, 2014

JOURNALS AND CHAPTERS

2. Martha Palmer, Claire Bonial, and **Jena D. Hwang**. VerbNet: Capturing English verb behavior, meaning and usage. In Susan E. F. Chipman, editor, The Oxford Handbook of Cognitive Science, pages 315–336. Oxford University Press, 2017

3. Claire Bonial, Kathryn Conger, **Jena D. Hwang**, Aous Mansouri, Yahya Aseri, Julia Bonn, Timothy O'Gorman, and Martha Palmer. Current directions in English and Arabic PropBank. Handbook of Linguistic Annotation. Springer, New York, 2017

4. **Jena D. Hwang**, Martha Palmer, and Annie Zaenen. Representing Paths of Motion in VerbNet. In Tracy Holloway King and Valeria de Paiva, editors, From Quirky Case to Representing Space. CSLI Online Publications, 2013

5. Daniel Albright, Arrick Lanfranchi, Anwen Fredriksen, William F Styler IV, Colin Warner, **Jena D. Hwang**, Jinho D Choi, Dmitriy Dligach, Rodney D Nielsen, James Martin, et al. Towards comprehensive syntactic and semantic annotations of the clinical narrative. Journal of the American Medical Informatics Association, 20(5):922–930, 2013

PEER-REVIEWED ARTICLES

6. **Jena D. Hwang**, Chandra Bhagavatula, Ronan Le Bras, Jeff Da, Keisuke Sakaguchi, Antoine Bosselut, and Yejin Choi. Comet-atomic 2020: On symbolic and neural commonsense knowledge graphs. In Proceedings of the Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI'21), 2021

7. **Jena Hwang**, Nathan Schneider, and Vivek Srikumar. Sprucing up Supersenses: Untangling the Semantic Clusters of Accompaniment and Purpose. In Proceedings of the 14th Linguistic Annotation Workshop (LAW) [In press], 2020a

8. **Jena Hwang**, Hanwool Choe, Na-Rae Han, and Nathan Schneider. K-SNACS: Annotating Korean Adposition Semantics. In Proceedings of the Second International Workshop on Designing Meaning Representations (DMR) [In press], 2020b

9. Maxwell Forbes, **Jena D. Hwang**, Vered Shwartz, Maarten Sap, and Yejin Choi. Social Chemistry 101: Learning to Reason about Social Norms and Moral Norms . In Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020

10. Rachel Rudinger, Vered Shwartz, **Jena D. Hwang**, Chandra Bhagavatula, Maxwell Forbes, Ronan Le Bras, Noah A. Smith, and Yejin Choi. Thinking Like a Skeptic: Defeasible Inference in Natural Language. In Findings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020

11. Lianhui Qin, Vered Shwartz, Peter West, Chandra Bhagavatula, **Jena D. Hwang**, Ronan Le Bras, Antoine Bosselut, and Yejin Choi. Backpropagation-based Decoding for Unsupervised Counterfactual and Abductive Reasoning, 2020

12. Tae Hwan Oh, Jiyoon Han, Hyonsu Choe, Seokwon Park, Han He, Jinho D. Choi, Na-Rae Han, **Jena D. Hwang**, and Hansaem Kim. Analysis of the Penn Korean Universal Dependency Treebank (PKT-UD): manual revision to build robust parsing model in Korean. In Proceedings of the 16th International Conference on Parsing Technologies and the IWPT 2020 Shared Task on Parsing into Enhanced Universal Dependencies, IWPT 2020, Online, July 9, 2020, pages 122–131. Association for Computational Linguistics, 2020

13. Adi Shalev, **Jena D. Hwang**, Nathan Schneider, Vivek Srikumar, Omri Abend, and Ari Rappoport. Preparing SNACS for subjects and objects. In Proceedings of the First International Workshop on Designing Meaning Representations, pages 141–147, 2019

14. Ian Perera, **Jena D. Hwang**, Kevin Bayas, Bonnie J. Dorr, and Yorick Wilks. Cyberattack prediction through public text analysis and mini-theories. In IEEE International Conference on Big Data, Big Data 2018, Seattle, WA, USA, December 10-13, 2018, pages 3001–3010. IEEE, 2018. doi: 10.1109/BigData.2018.8622106

15. Hiroshi Kanayama, Na-Rae Han, Masayuki Asahara, **Jena D. Hwang**, Yusuke Miyao, Jinho D. Choi, and Yuji Matsumoto. Coordinate Structures in Universal Dependencies for Head-final Languages. In Proceedings of the EMNLP Workshop on Universal Dependencies, 2018

16. Nathan Schneider, **Jena D.Hwang**, Vivek Srikumar, Jakob Prange, Austin Blodgett, Sarah R. Moeller, Aviram Stern, Adi Bitan, and Omri Abend. Comprehensive supersense disambiguation of English prepositions and possessives. In Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics, Melbourne, Australia, July 2018. Association for Computational Linguistics

17. Jayeol Chun, Na-Rae Han, **Jena D. Hwang**, and Jinho D. Choi. Building Universal Dependency Treebanks in Korean. In Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC'18), 2018

18. **Jena D. Hwang**, Archna Bhatia, Na-Rae Han, Tim O'Gorman, Vivek Srikumar, and Nathan Schneider. Double trouble: The problem of construal in semantic annotation of adpositions. In Proceedings of the 6th Joint Conference on Lexical and Computational Semantics (* SEM 2017), pages 178–188, 2017

19. Nathan Schneider, **Jena D. Hwang**, Vivek Srikumar, Meredith Green, Abhijit Suresh, Kathryn Conger, Tim O'Gorman, and Martha Palmer. A corpus of preposition supersenses in english web reviews. In Proc. of LAW X – the 10th Linguistic Annotation Workshop, pages 99–109, Berlin, Germany, August 2016

20. Irina Wagner, Andrew Cowell, and **Jena D. Hwang**. Applying Universal Dependency to the Arapaho Language. LAW X, page 171, 2016

21. **Jena D. Hwang** and Kristy Hollingshead. Crazy mad nutters: the language of mental health. In Proceedings of the Third Workshop on Computational Lingusitics and Clinical Psychology, pages 52–62, 2016

22. Greg Dubbin, Archna Bhatia, Bonnie J Dorr, Adam Dalton, Kristy Hollingshead, Ian E Perera, Suriya Kandaswamy, and **Jena D. Hwang**. Event nugget detection and argument extraction with DISCERN. In FLAIRS Conference, pages 214–219, 2016

23. Greg Dubbin, Archna Bhatia, Bonnie J Dorr, Adam Dalton, Kristy Hollingshead, Suriya Kandaswamy, Ian Perera, and **Jena D. Hwang**. Improving DISCERN with deep learning. In In Text Analysis Conference (TAC)

24. **Jena D. Hwang** and Martha Palmer. Identification of Caused Motion Constructions. Lexical and Computational Semantics (* SEM 2015), 2015

25. Nathan Schneider, Vivek Srikumar, **Jena D. Hwang**, and Martha Palmer. A hierarchy with, of, and for preposition supersenses. In Proc. of The 9th Linguistic Annotation Workshop, pages 112–123, Denver, Colorado, USA, June 2015

26. **Jena D. Hwang**, Annie Zaenen, and Martha Palmer. Criteria for Identifying and Annotating Caused Motion Constructions in Corpus Data. In Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC'14), Reykjavik, Iceland, 2014

27. Claire Bonial, Julia Bonn, Kathryn Conger, **Jena D. Hwang**, and Martha Palmer. Propbank: Semantics of new predicate types. In LREC, pages 3013–3019, 2014

28. Claire Bonial, Weston Feely, **Jena D. Hwang**, and Martha Palmer. Empirically validating VerbNet using SemLink. In Joint ISA-7 Workshop on Interoperable Semantic Annotation SRSL-3 Workshop on Semantic Representation for Spoken Language I2MRT Workshop on Multimodal Resources and Tools, volume 45. Citeseer, 2012a

29. **Jena D. Hwang**. Making verb argument adjunct distinctions in english. Colorado Research in Linguistics, 23-1, 2012

30. Claire Bonial, Susan Windisch Brown, **Jena D. Hwang**, Christopher Parisien, Martha Palmer, and Suzanne Stevenson. Incorporating Coercive Constructions into a Verb Lexicon. In Proceedings of the ACL 2011 Workshop on Relational Models of Semantics, Portland, Oregon, June 2011

31. Abdelati Hawwari, **Jena D. Hwang**, Aous Mansouri, and Martha Palmer. Classification and deterministic propbank annotation of predicative adjectives in Arabic. In Workshop on Interoperable Semantic Annotation, page 44, 2011

32. **Jena D. Hwang**, Archna Bhatia, Claire Bonial, Aous Mansouri, Ashwini Vaidya, Nianwen Xue, and Martha Palmer. PropBank Annotation of Multilingual Light Verb Constructions. In Proceedings of the Fourth Linguistic Annotation Workshop, pages 82–90, Uppsala, Sweden, July 2010a. Association for Computational Linguistics

33. **Jena D. Hwang**, Rodney D. Nielsen, and Martha Palmer. Towards a Domain Independent Semantics: Enhancing Semantic Representation with Construction Grammar. In Proceedings of the NAACL HLT Workshop on Extracting and Using Constructions in Computational Linguistics, pages 1–8, Los Angeles, California, June 2010b. Association for Computational Linguistics

34. Cecily Jill Duffield, **Jena D. Hwang**, and Laura A. Michaelis. Identifying Assertions in Text and Discourse: The Presentational Relative Clause Construction. In Proceedings of Extracting and Using Constructions in Computational Linguistic Workshop held in conjunction wi th NAACL HLT 2010, Los Angeles, California, June 2010

35. Martha Palmer, **Jena D. Hwang**, Susan Windisch Brown, Karin Kipper Schuler, and Arrick Lanfranchi. Leveraging Lexical Resources for the Detection of Event Relations. In Proceedings of the AAAI 2009 Spring Symposium on Learning by Reading, Stanford, CA, March 2009

36. Vicky T Lai, Meiyu Chang, C Duffield, **Jena D. Hwang**, Nianwen Xue, and Martha Palmer. Defining a methodology for mapping chinese and english sense inventories. In Chinese lexical semantics workshop, pages 59–65, 2007

37. Cecily Jill Duffield, **Jena D. Hwang**, Susan Windisch Brown, Dmitriy Dligach, Sarah E. Vieweg, Jenny Davis, and Martha Palmer. Criteria for the Manual Grouping of Verb Senses. In Proceedings of the Linguistic Annotation Workshop held in conjunction with ACL-2007, Prague, the Czech Republic, June 2007a

MANUSCRIPTS AND PRESENTATIONS

TECH REPORTS

38. Nathan Schneider, **Jena D. Hwang**, Archna Bhatia, Vivek Srikumar, Na-Rae Han, Tim O'Gorman, Sarah R Moeller, Omri Abend, Adi Shalev, Austin Blodgett, et al. Adposition and Case Supersenses v2. 5: Guidelines for English. arXiv preprint arXiv:1704.02134, 2017a

39. Nathan Schneider, **Jena D. Hwang**, Archna Bhatia, Na-Rae Han, Vivek Srikumar, Tim O'Gorman, and Omri Abend. Adposition supersenses v2. arXiv preprint arXiv:1704.02134, 2017b

40. Claire Bonial, **Jena D. Hwang**, Julia Bonn, Kathryn Conger, Olga Babko-Malaya, and Martha Palmer. English propbank annotation guidelines. Center for Computational Language and Education Research Institute of Cognitive Science University of Colorado at Boulder, 2012b

CONFERENCE AND GUEST PRESENTATIONS

41. **Jena D. Hwang**, Laura Michaelis, and Martha Palmer. What is an aspectual particle? Conference Presentation, 2009

42. Cecily Jill Duffield, **Jena D. Hwang**, Susan Windisch Brown, Dimitry Dligach, Sarah E Vieweg, Jenny Davis, and Martha Palmer. Criteria for manual clustering of verb senses. Conference Presentation, 2007b

43. Susan Windisch Brown, Cecily Jill Duffield, Dmitrity Dligach **Jena D. Hwang**, Sarah E. Vieweg, Jenny Davis, and Martha Palmer. Criteria for manual clustering of verb senses. Poster Presentation, 2007

44. Cecily Jill Duffield, **Jena D. Hwang**, and Sarah Vieweg. Verb sense disambiguation. Guest Presentation at Départment de Linguistique et de Traduction at the Université de Montréal, December 2006

EXAMINATION MANUSCRIPTS

45. **Jena D. Hwang**. A preliminary study on semantic patterns in verb-particle combinations appearing with particles up, on and out in the english language. 2007

TEACHING EXPERIENCE

COURSE INSTRUCTOR
- Semantics (LING 3430). Spring 2015. University of Colorado Boulder.

TEACHING ASSISTANT
- Introduction to Linguistics (LING 2000). Spring 2009. University of Colorado Boulder.
- Language Sound Structures (LING 3100). Spring 2006. University of Colorado Boulder.

GUEST LECTURES
- "VerbNet and Constructions." Computational Lexical Semantics (LING 7800). Apr 9, 2013.
- "Making Verb Argument Adjunct Distinction." Syntactic Analysis (LING 6450). Feb 7, 2012.
- "Lists, Dictionaries, Strings, and Files in Python." Introduction to Corpus Linguistics (LING 5200). Oct 24, 2011.
- "Natural Language Processing & Propbank." Semantics (LING 3430). Feb 23, 2010.
- "Computational Linguistics." Introduction to Linguistics (LING 2000). March 18, 2009.
- "Language Processing PropBank." Semantics and Pragmatics (LING 5430). March 4, 2008.

SERVICE

REFEREE/REVIEW
- ACM Computing Surveys
- Ampersand: An International Journal of General and Applied Linguistics
- Association of Computational Linguistics (ACL)
- Computational Linguistics and Clinical Psychology (CLPsych)
- European Association of Computational Linguistics (EACL)
- International Conference on Computational Linguistics (COLING)
- Journal of Language and Education
- Language Resource and Evaluation (LREV)
- Lexical and Computational Semantics (*SEM)
- Linguistic Annotation Workshop (LAW)
- North American Association of Computational Linguistics (NAACL)
- Transactions on Asian and Low-Resource Language Information Processing (ACM-TALLIP)

CO-ORGANIZER
- Co-program chair for Linguistic Annotation Workshop (LAW) at Joint Workshop on Linguistic Annotation, Multiword Expressions and Constructions (LAW-MWE-CxG) (Aug 2018)

PROFESSIONAL MEMBERSHIPS

- Member, Association for Computational Linguistics (ACL)
- Lifetime Member, Linguistics Society of America (LSA)