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Education

2013-pres	**Ph.D.** (*in progress*) in Computational Linguistics, *University of Arizona*
2012-2014	**M.S.** Human Language Technology, *University of Arizona*
2008-2010	**M.A.** Applied Linguistics, *University of Alabama*
2004-2008	**B.A.** Japanese, *University of Alabama*
2006-2007	Study abroad in Kyoto, Japan (*Ritsumeikan University*)

Publications (peer-reviewed)

Articles

2015 — Fried, D., Jansen, P., Hahn-Powell, G., Surdeanu, M., and Clark, P. (2015). Higher-order lexical semantic models for non-factoid answer reranking. *Transactions of the Association for Computational Linguistics*, 3:197–210. Paper available at https://transacl.org/ojs/index.php/tacl/article/view/550/122

Conference Proceedings

2018 — Luo, F., Valenzuela-Escárcega, M. A., Hahn-Powell, G., and Surdeanu, M. (2018). Scientific discovery as link prediction in influence and citation graphs. In *Proceedings of the Twelfth Workshop on Graph-Based Methods for Natural Language Processing (TextGraphs-12)*, pages 1–6. Association for Computational Linguistics. Paper available at https://aclweb.org/anthology/W18-1701"

Forbes, A. G., Lee, K., Hahn-Powell, G., Valenzuela-Escárcega, M. A., and Surdeanu, M. (2018). Text annotation graphs: Annotating complex natural language phenomena. In *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC-2018)*. European Language Resources Association (ELRA). Paper available at https://aclweb.org/anthology/W18-1701

2017 — Hahn-Powell, G., Valenzuela-Escárcega, M. A., and Surdeanu, M. (2017). Swanson linking revisited: Accelerating literature-based discovery across domains using a conceptual influence graph. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics: Software Demonstrations*, page *forthcoming*. ACL. Paper available at https://aclweb.org/anthology/P/P15/P15-4022.pdf

Valenzuela-Escárcega, M. A., Babur, O., Hahn-Powell, G., Bell, D., Hicks, T., Noriega-Atala, E., Wang, X., Surdeanu, M., Demir, E., and Morrison, C. T. (2017). Large-scale automated reading with reach discovers new cancer driving mechanisms. In *Proceedings of the Sixth BioCreative Challenge Evaluation Workshop*, pages 201–203. Paper available at `http://www.biocreative.org/media/store/files/2018/general_3.pdf`

2016 Hahn-Powell, G., Bell, D., Valenzuela-Escárcega, M. A., and Surdeanu, M. (2016). This before that: Causal precedence in the biomedical domain. In *Proceedings of the 2016 Workshop on Biomedical Natural Language Processing*. Association for Computational Linguistics. Paper available at `https://arxiv.org/abs/1606.08089`

Bell, D., Hahn-Powell, G., Valenzuela-Escárcega, M. A., and Surdeanu, M. (2016). An investigation of coreference phenomena in the biomedical domain. In lre (2016). Paper available at `https://arxiv.org/abs/1603.03758`

Valenzuela-Escárcega, M. A., Hahn-Powell, G., and Surdeanu, M. (2016). Odin's runes: A rule language for information extraction. In lre (2016). Paper available at `https://surdeanu.info/mihai/papers/lrec2016-odin.pdf`

2015 Valenzuela-Escárcega, M. A., Hahn-Powell, G., Hicks, T., and Surdeanu, M. (2015a). A domain-independent rule-based framework for event extraction. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing: Software Demonstrations*, pages 127–132. ACL-IJCNLP 2015. Paper available at `https://aclweb.org/anthology/P/P15/P15-4022.pdf`

2013 Dawson, C. R., Pero, L. D., Morrison, C. T., Surdeanu, M., Hahn-Powell, G., Chapman, Z., and Barnard, K. (2013). Bayesian modeling of scenes and captions. In *Proceedings of the 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies; Workshop on Vision and Language*. (WVL)NAACL-HLT. Slides available at `http://nlp.cs.illinois.edu/WVL13/slides/Dawson_WVL13.pdf`

Presentations

2015 Hahn-Powell, G., Martin, B., and Archangeli, D. (2015). A method for automatically detecting problematic tongue traces. In *Proceedings of Ultrafest VII*. Ultrafest VII. Abstract available at `http://www.ultrafest2015.hku.hk/docs/ABSTRACT%20BOOK.pdf`

2014 Hahn-Powell, G. and Archangeli, D. (2014a). Autotrace: An automatic system for tracing tongue contours. In asa (2014), pages 2104–2104. Slides available at `https://parsertongue.com/publications/ASA_Indianapolis_2014_AT_slides.pdf`

Hahn-Powell, G. and Archangeli, D. (2014b). Testing autotrace. In asa (2014), pages 2082–2082. Poster available at `https://parsertongue.com/publications/ASA_Indianapolis_2014_AT_poster.pdf`

2013 Archangeli, D., Mahdavi, M., Ellison, D., Hahn-Powell, G., Coto, R., Berry, J., and Boersma, P. (2013). Ultrapraat software & database for simultaneous acoustic and articulatory analysis. In ult (2013). Abstract available at `http://www.qmu.ac.uk/casl/conf/ultrafest_2013/docs/UltraPraat.pdf`

Sung, J.-H., Berry, J., Cooper, M., Hahn-Powell, G., and Archangeli, D. (2013). Testing autotrace: A machine-learning approach to automated tongue contour data extraction. In ult (2013). Abstract available at `http://www.qmu.ac.uk/casl/conf/ultrafest_2013/docs/G_HahnPowel_1_ultrafest.pdf`

2010 Patton, E., Hahn-Powell, G., and Nelson, R. (2010). The 'worthy of attention' collostruction: Frequency, synonymy, and learnability. SECOL LXII. Abstract available at `http://www.secol.org/conferences/olemissconference/schedule/abstracts/patton,%20hahn-powell,%20nelson.html`

Publications (not peer-reviewed)

Manuals

2015 Valenzuela-Escárcega, M. A., Hahn-Powell, G., and Surdeanu, M. (2015b). Description of the odin event extraction framework and rule language. *CoRR*, abs/1509.07513. Paper available at `https://arxiv.org/abs/1509.07513`

Research Experience

Research Associate for the Natural Language Processing Lab

2016-pres *Extending multi-domain influence relation networks via rule learning.*
Funding source: *Bill and Melinda Gates Foundation HBGDki Initiative*

2014-pres *Machine reading and sieve-based assembly of biomolecular interactions.*
Funding source: *DARPA Big Mechanism project*

2014 *Non-factoid question-answering.*
Funding source: *Allen Institute for AI*

Programmer and Manager for the Arizona Phonological Imaging Lab

2012-2015 *Machine learning methods for automatically identifying tongue contours in ultrasound images.*
Funding source: *National Science Foundation*

Research Interests

rule-based information extraction, knowledge assembly, synonymy, computational modeling of language, non-factoid question answering