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Publications

In press. Dialectal Layers in West Iranian: a Hierarchical Dirichlet Process Approach to Linguistic Relationships. https://arxiv.org/abs/2001.05297. *Transactions of the Philological Society*.

In press. Outstanding problems in Persian historical phonology: toward a quantitative solution. In Alireza Korangy (ed.), *Persian Dialects*. Springer (Springer Handbooks in Linguistics).

In press. Probing Paul's Principle: Paradigm Heterogeneity and Homogenization. In Alan C.L. Yu and Darya Kavitskaya (eds.), *Life Cycle of Language: Essays in Honor of Andrew Garrett*. Oxford University Press.

2021. Gerd Carling, Chundra Cathcart and Erich Round. Reconstructing the origins of language families and variation. In Andrew Lock, Chris Sinha, and Nathalie Gontier (eds.), *Handbook of Human Symbolic Evolution*. Oxford University Press.

2021. Gerd Carling and Chundra Cathcart (equal contribution). Reconstructing the evolution of Indo-European grammar. *Language* 97:138. https://doi.org/10.1353/lan.0.0253

In press. Gerd Carling and Chundra Cathcart. Evolutionary dynamics of Indo-European alignment patterns. *Diachronica* 38:358412. https://doi.org/10.1075/dia.19043.car

2020. Chundra Cathcart, Andreas Hölzl, Gerhard Jäger, Paul Widmer and Balthasar Bickel. Numeral classifiers and number marking in Indo-Iranian: a phylogenetic approach. *Language Dynamics and Change*. https://doi.org/10.1163/22105832-bja10013.

2020. Chundra Cathcart and Taraka Rama. Disentangling dialects: a neural approach to Indo-Aryan historical phonology and subgrouping. In *Proceedings of the 24th Conference on Computational Natural Language Learning*, pp. 620–630. Association for Computational Linguistics. https://www.aclweb.org/anthology/2020.conll-1.50.

2020. A probabilistic assessment of the Indo-Aryan Inner-Outer Hypothesis. *Journal of Historical Linguistics* 10:42–86. https://doi.org/10.1075/jhl.18038.cat. (Preprint: https://arxiv.org/abs/1912.01957)

2020. Chundra Cathcart and Joanne Yager. Linguistic stability and change under small-scale egalitarian language contact: a mixture model approach. In Denison., M. Mack, Y. Xu, & B.C. Armstrong (Eds.), *Proceedings of the 42th Annual Meeting of the Cognitive Science Society*, pp. 3109–3115. Cognitive Science Society. https://cognitivesciencesociety.org/cogsci20/papers/0776/0776.pdf

2020. Chundra Cathcart and Florian Wandl. In search of isoglosses: continuous and discrete language embeddings in Slavic historical phonology. In *Proceedings of the Seventeenth SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, pp. 233–244. https://www.aclweb.org/anthology/2020.sigmorphon-1.28

2019. Gaussian Process Models of Sound Change in Indo-Aryan Dialectology. In *Proceedings of the 1st International Workshop on Computational Approaches to Historical Language Change*, pp. 254–264. https://www.aclweb.org/anthology/W19-4732

2019. Toward a deep dialectological representation of Indo-Aryan. In *Proceedings of VarDial*, pp. 110–119. `https://www.aclweb.org/anthology/W19-1411`

2018. Modeling linguistic evolution: a look under the hood. *Linguistics Vanguard*. `https://doi.org/10.1515/lingvan-2017-0043`

2018. Chundra Cathcart, Gerd Carling, Filip Larsson, Niklas Johansson and Erich Round. Areal pressure in grammatical evolution: An Indo-European case study. *Diachronica* 35:1–34. `https://doi.org/10.1075/dia.16035.cat`

2018. Gerd Carling, Filip Larsson, Chundra Cathcart, Niklas Johansson, Arthur Holmer, Erich Round, and Rob Verhoeven. Diachronic Atlas of Comparative Linguistics (DiACL) — A database for ancient language typology. *PLoS ONE 13* 10:e0205313.

2017. Decomposability and Frequency in the Hindi/Urdu Number System. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society.* 1733–1738. `https://mindmodeling.org/cogsci2017/papers/0337/`

2016. Vedic post-lexical retroflexion: opacity and diachrony. In *Proceedings of the 50th Annual Meeting of the Chicago Linguistic Society*, pp. 89–102.

2015. Evolutionary vs. Amphichronic Phonology: toward a probabilistic solution. In T. Bui and D. Özyıldız (eds.) *Proceedings of NELS 45*. Amherst: GLSA Publications, University of Massachusetts.

2015. Degrees of irregular change: phonological reduction and grammatical convergence in West Iranian. *Language Dynamics and Change* 5.2:282–308.

2015. William Chang, Chundra Cathcart, David Hall and Andrew Garrett. Ancestry-constrained phylogenetic analysis supports the Indo-European steppe hypothesis. *Language* 91.1:194–244. Reprinted in *The Best of Language: Volume III*.

2014. Analogical morphophonology and Iranian words with irregular *f*. In S. Jamison, H.C. Melchert, and B. Vine (eds.), *Proceedings of the 25th Annual UCLA Indo-European Conference*, pp. 21–38. Bremen: Hempen Verlag.

2012. Vedic labial dissimilation revisited. In S. Jamison, H.C. Melchert, and B. Vine (eds.), *Proceedings of the 23rd Annual UCLA Indo-European Conference*, pp. 29–45. Bremen: Hempen Verlag.

2011. RUKI in the Nuristani languages: an assessment. In S. Jamison, H.C. Melchert, and B. Vine (eds.), *Proceedings of the 22nd Annual UCLA Indo-European Conference*, pp. 1–11. Bremen: Hempen Verlag.

Edited Volumes

2011. With I-Hsuan Chen, Greg Finley, Shinae Kang, Clare S. Sandy and Elise Stickles (eds.), *Proceedings of the Annual Meeting of the Berkeley Linguistics Society*, vol. 37, no. 1.

2011. With Shinae Kang and Clare S. Sandy (eds.), *Proceedings of the Annual Meeting of the Berkeley Linguistics Society*, vol. 37, no. 2.

Presentations

2020. Chundra Cathcart and Taraka Rama. Disentangling dialects: a neural approach to Indo-Aryan historical phonology and subgrouping. Paper presented at CoNLL 24, Online, November 19.

2020. Chundra Cathcart and Joanne Yager. Linguistic maintenance and convergence in small-scale egalitarian contact: a mixture model approach. Paper presented at CogSci 2020, Online, July 30.

2020. Chundra Cathcart and Florian Wandl. In search of isoglosses: continuous and discrete language embeddings in Slavic historical phonology. Paper presented at SIGMORPHON 2020, Online, July 10.

2019. Horizontal and vertical pressures in language change: fleshing out admixture models. Research colloquium, University of Tübingen, December 16.

2019. Relaxing the comparative method: probabilistic approaches to sound change and Indo-Iranian dialectology. Paper presented at Protolang 6, Lisbon, September 9.

2019. Chundra Cathcart, Andreas Hölzl, Paul Widmer, and Balthasar Bickel. Numeral classifiers and plural marking in Indo-Iranian: an evolutionary study. Paper presented at the 13th Conference of the Association for Linguistic Typology, Pavia, September 4.

2019. Andreas Hölzl and Chundra Cathcart. Sortal Numeral Classifiers in Central Asia. Paper presented at the 13th Conference of the Association for Linguistic Typology, Pavia, September 4.

2019. Chundra Cathcart and Damián Blasi. How well do Recurrent Neural Networks capture regularities in sound change? Paper presented at the 52nd Annual Meeting of the Societas Linguistica Europaea, Leipzig, August 22.

2019. Latent variable models of Indo-Aryan languages. Paper presented at the 24th International Conference on Historical Linguistics, Canberra, July 2.

2019. Toward a deep dialectological representation of Indo-Aryan. Poster presented at the Sixth Workshop on NLP for Similar Languages, Varieties and Dialects, Minneapolis, June 7.

2019. Shallow and deep approaches to sound change in Indo-Aryan dialectology. Presented at Seminar in phonetics and phonology, Venice International University, May 16.

2019. Prior thoughts on mixed-membership models in linguistics. Paper presented at Bayes@Lund, Lund University, May 7.

2018. Phylogenetic perspectives on V2 and subject-drop in Indo-European. Paper presented at Perspectives on Word Order Evolution: Reconstruction, Typology, and Processing. University of Zurich, November 8.

2018. The Inner-Outer hypothesis of Indo-Aryan: a computational study. Paper presented at the 34th South Asian Languages Analysis Roundtable (SALA), University of Konstanz, April 13.

2017. Gerd Carling and Chundra Cathcart. Contrasting models of morphosyntactic reconstruction. A comparison of results of comparative-historical and phylogenetic methods for the Indo-European family. Paper presented at the 50th Annual Meeting of the Societas Linguistica Europaea, University of Zurich, September 12.

2017. Decomposability and Frequency in the Hindi/Urdu Number System. Poster presented at the 39th Annual Meeting of the Cognitive Science Society, London, July 29.

2016. Gerd Carling and Chundra Cathcart. Can culture vocabularies replace or supplement basic vocabulary lists for measuring linguistic diversity? A study on the Indo-European and Tupí language families. Poster presented at the 49th Annual Meeting of the Societas Linguistica Europaea, University of Naples Federico II, September 2.

2015. Ancestry-constrained phylogenetic analysis and the Indo-European Steppe Hypothesis. Presented at the University of Copenhagen, November 6.

2015. The relationship between areality and frequency of usage: drift vs. diffusion. Presented at the 89th Annual Meeting of the Linguistic Society of America, Portland, Oregon, January 10.

2014. A probabilistic model of Evolutionary Phonology. Poster presented at the 45th Annual Meeting of the North East Linguistic Society, Massachusetts Institute of Technology, October 31.

2014. Vedic post-lexical retroflexion: synchronic and diachronic perspectives. Poster presented at the 3rd Biennial Workshop on Sound Change in Interacting Human Systems, University of California, Berkeley, May 29.

2014. The role of diachronic explanation in prosodic phonology: evidence from Vedic Sanskrit. Presented at the 50th Annual Meeting of the Chicago Linguistic Society, University of Chicago, April 10.

2014. Geography and contact-induced variation in West Iranian. Presented at the 88th Annual Meeting of the Linguistic Society of America, Minneapolis, January 3.

2013. The undoing of Bartholomae's Law and similar developments in Avestan and Iranian. Presented at the 25th Annual Indo-European Conference, University of California, Los Angeles, October 25.

2013. William Chang, Chundra Cathcart, David Hall, and Andrew Garrett. Dating Proto-Indo-European: A revised computational phylogenetic analysis supports the steppe hypothesis. Presented at the 21st International Conference on Historical Linguistics, University of Oslo, August 9.

2013. Degrees of irregular change: phonological reduction and grammatical convergence in West Iranian. Presented at the 21st International Conference on Historical Linguistics, University of Oslo, August 7.

2012. Rhotic/palatal variation in Proto-Tibeto-Burman. Presented at the 45th International Conference on Sino-Tibetan Languages and Linguistics, Nanyang Technological University, Singapore, October 27.

2012. Is West Iranian a clade? Presented at the 31st East Coast Indo-European Conference, University of California, Berkeley, May 20.

2011. What can Romani tell us about Middle Indic sound change? Presented at the Roundtable Discussion, Inaugural Conference on Romani Studies, University of California, Berkeley, November 11.

2011. Vedic labial dissimilation revisited. Presented at the 23rd Annual Indo-European Conference, University of California, Los Angeles, October 29.

2010. The probable operation of RUKI in the Nuristani languages. Presented at the 22nd Indo-European Conference, University of California, Los Angeles, November 5.