

# HOSSEP DOLATIAN

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## EXECUTIVE SUMMARY

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I have a PhD in Linguistics with 9 years of experience in computational and theoretical linguistics. As a researcher, my focus is on creating new computational models and resources for understudied linguistic phenomena. I have nearly a decade's worth of writing and editorial experience in academic writing. I recently transitioned to technical writing and editing.

## SKILLS

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**Work skills:**      **General:** Writing, public speaking, team management, data collection, teaching  
                         **Computation:** Formal languages, databases, machine learning, deep learning  
                         **Linguistics:** phonology, morphology, phonetics, syntax, natural language processing

**Languages:**      Armenian (native), English (near-native), Arabic (advanced)

**Programming:**    JAVA, PYTHON, C++, Haskell, Lisp, SQL,  $\text{\LaTeX}$

**Research:**        Computational linguistics, mathematical linguistics, Armenian linguistics,  
                         morphology, morpho-phonology, prosody, phonology, Semitic linguistics

## WORK EXPERIENCE

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### Technical Editor at ServiceNow

2020-present    Edit technical writing and mentor technical writers.

### Graduate Student Researcher at the University of Delaware and Stony Brook University

2014-2020      Assisted in teaching 9 linguistics classes (grading, lesson prep, teaching)  
                         Wrote 10 conference proceedings papers and 3 journal papers

### Lab manager and C++ programmer at Stony Brook University

2018-2019      Managed a speech-perception lab, coordinated and trained undergraduate RAs  
                         Designed and modified C++ code for speech-perception experiments

### Freelance writer and copyeditor

2015             Blog editor for [Fanovit.com](#): Beirut, Lebanon

2014             Book editor and proofreader for the Lebanese American University: Beirut, Lebanon

## EDUCATION

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- 2020      **Ph.D. in Linguistics**  
Stony Brook University: Stony Brook, NY  
Dissertation title: *Computational locality of cyclic phonology in Armenian:*
- 2016      **M.A. in Linguistics**  
University of Delaware: Newark, DE
- 2016      **CELTA (University of Cambridge ESOL Certificate in English Language Teaching to Adults), PASS**  
International House: Beirut, Lebanon
- 2014      **B.A. in English Language with Minor in Computer Science**  
Lebanese American University: Beirut, Lebanon

## JOURNAL ARTICLES

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- 2023      **Dolatian, Hossep** & Peter Guekguezian. 2023. Relativized locality: Phases and tiers in long-distance allomorphy in Armenian. *Linguistic Inquiry* 54(3). 505–545. doi:10.1162/ling.a.00456
- Seyfarth, Scott, **Hossep Dolatian**, Peter Guekguezian, Niamh Kelly & Tabita Toparlak. 2023. Armenian (Yerevan Eastern and Beirut Western varieties). *Journal of the International Phonetic Association* doi:10.1017/S0025100323000130
- Dolatian, Hossep**. 2023a. Cyclic residues of affix deletion in Armenian passive stems. *Natural Language & Linguistic Theory* doi:10.1007/s11049-023-09586-1
- Dolatian, Hossep**. 2023b. Fluctuations in allomorphy domains: Applying Stump 2010 to Armenian ordinal numerals. *Journal of Linguistics* 1–35. doi:10.1017/S0022226723000099
- Dolatian, Hossep**. 2023d. Isomorphism between orthography and underlying forms in the syllabification of the Armenian schwa. *Phonological Data and Analysis* 5(4). doi:10.3765/pda.v5art4.68
- Rawski, Jonathan, **Hossep Dolatian**, Jeffrey Heinz & Eric Raimy. 2023. Regular and polyregular theories of reduplication. *Glossa: a journal of general linguistics* 8(1). doi:10.16995/glossa.8885
- Dolatian, Hossep**. 2023e. Output-conditioned and non-local allomorphy in Armenian theme vowels. *The Linguistic Review* 40. 1–42. doi:10.1515/tlr-2022-2104
- 2022      **Dolatian, Hossep** & Peter Guekguezian. 2022. Derivational timing of morphemes: Canonicity and rule ordering in the Armenian aorist stem. *Morphology* 32(3). 317–357. doi:10.1007/s11525-022-09397-x
- Dolatian, Hossep**. 2022a. An apparent case of outwardly-sensitive allomorphy in the Armenian definite. *Glossa: a journal of general linguistics* 7(1). doi:10.16995/glossa.6406

- 2021 **Dolatian, Hossep.** 2021b. The role of heads and cyclicity in bracketing paradoxes in Armenian compounds. *Morphology* 31(1). 1–43. doi:10.1007/s11525-020-09368-0
- Dolatian, Hossep.** 2021a. Cyclicity and prosodic misalignment in Armenian stems: Interaction of morphological and prosodic cophonologies. *Natural Language & Linguistic Theory* 39(3). 843–886. doi:10.1007/s11049-020-09487-7
- 2020 **Dolatian, Hossep & Jeffrey Heinz.** 2020. Computing and classifying reduplication with 2-way finite-state transducers. *Journal of Language Modelling* 8(1). doi:10.15398/jlm.v8i1.245

## SOFTWARE AND DATA

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- 2023 **Dolatian, Hossep.** 2023c. Interlingual MFA. URL <https://github.com/jhdeov/interlingual-MFA>
- 2022 Chakmakjian, Samuel & **Hossep Dolatian.** 2022. Speech corpus of Armenian question-answer dialogues. Zenodo. doi:10.5281/ZENODO.7088365. URL <https://zenodo.org/record/7088365>
- 2020 Boyacioglu, Nisan & **Hossep Dolatian.** 2020. Armenian verbs: Paradigms and verb lists of Western Armenian conjugation classes. Zenodo. doi:10.5281/ZENODO.4397423

## BOOK CHAPTERS

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- Forthcoming **Dolatian, Hossep & Eric Raimy.** prep. Evaluating Precedence-Based Phonology: Logical structure of reduplication and linearization. In **Hossep Dolatian, Jeffrey Heinz & Kristina Strother-Garcia** (eds.), *Doing computational phonology*, URL <https://lingbuzz.net/lingbuzz/005600>
- Dolatian, Hossep.** prep. Obstruent voicing assimilation in Russian. In **Hossep Dolatian, Jeffrey Heinz & Kristina Strother-Garcia** (eds.), *Doing computational phonology*, URL <https://lingbuzz.net/lingbuzz/005600>

## MONOGRAPHS

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- In review **Dolatian, Hossep.** in review. Translation and commentary on Adjarian 1911 'Armenian dialectology'. Unpublished manuscript. URL <https://github.com/jhdeov/adjarian1911/>
- 2023 **Dolatian, Hossep, Afsheen Sharifzadeh & Bert Vaux.** 2023. *A grammar of Iranian Armenian: Parskahayeren or Iranahayeren* Languages of the Caucasus. Berlin: Language Science Press. doi:10.5281/zenodo.8177018. Unpublished manuscript

## EDITED VOLUMES

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- Forthcoming **Dolatian, Hossep**, Jeffrey Heinz & Kristina Strother-Garcia (eds.). prep. *Doing computational phonology*. Oxford: Oxford University Press
- 2020 **Dolatian, Hossep**, Anaïd Donabédian-Demopoulos, Katherine Hodgson & Victoria Khurshudyan. 2020. Armenian. In Christiane Bulut, Anaïd Donabédian-Demopoulos, Geoffrey Haig, Geoffrey Khan, Pollet Samvelian, Stavros Skopeteas & Nina Sumbatova (eds.), *Glottothèque: Languages of the Anatolia-Caucasus-Iran-Mesopotamia online*, Bamberg, Cambridge, Göttingen, Moskow, Nicosia, Paris: LACIM. URL <https://spw.uni-goettingen.de/projects/lacim/lng-arm.html>

## PROCEEDINGS

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- forthcoming Guekguezian, Peter Ara & **Hossep Dolatian**. forthcoming. Distributing theme vowels across roots, verbalizers, and voice in Western Armenian verbs. In *Proceedings of the 39th Meeting of the West Coast Conference on Formal Linguistics (WCCFL)*,
- 2023 Hovhannisyan, Hasmik & **Hossep Dolatian**. 2023. Simplification principles and child language development in Armenian. *Proceedings of the Workshop on Turkic and Languages in Contact with Turkic* 8. 226–240. doi:10.3765/zkvc5m80
- Dolatian, Hossep** & Tom Meadows. 2023. Prosodically-conditioned relative clause extraposition in Armenian. *Proceedings of the Workshop on Turkic and Languages in Contact with Turkic* 8. 44–58. doi:10.3765/xw9svp45
- Toparлак, Tabita & **Hossep Dolatian**. 2023. Aerodynamics and articulation of word-final ejectives in Eastern Armenian. In Radek Skarnitzl & Jan Volín (eds.), *Proceedings of the 20th International Congress of Phonetic Sciences*, 3246–3251. Guarant International
- 2022 Kodner, Jordan, Salam Khalifa, Khuyagbaatar Batsuren, **Hossep Dolatian**, Ryan Cotterell, Faruk Akkus, Antonios Anastasopoulos, Taras Andrushko, Aryaman Arora, Nona Atanalog, Gábor Bella, Elena Budianskaya, Yustinus Ghanggo Ate, Omer Goldman, David Guriel, Simon Guriel, Silvia Guriel-Agiashvili, Witold Kieraś, Andrew Krizhanovsky, Natalia Krizhanovsky, Igor Marchenko, Magdalena Markowska, Polina Mashkovtseva, Maria Nepomniashchaya, Daria Rodionova, Karina Scheifer, Alexandra Sorova, Anastasia Yemelina, Jeremiah Young & Ekaterina Vylomova. 2022. SIGMORPHON–UniMorph 2022 shared task 0: Generalization and typologically diverse morphological inflection. In *Proceedings of the 19th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 176–203. Seattle, Washington: Association for Computational Linguistics. doi:10.18653/v1/2022.sigmorphon-1.19
- Dolatian, Hossep**, Shiori Ikawa & Thomas Graf. 2022a. Trees probe deeper than strings: an argument from allomorphy. In *Proceedings of the 19th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 51–60. Seattle, Washington: Association for Computational Linguistics

Vu, Mai Ha, Aniello De Santo & **Hossep Dolatian**. 2022. Logical transductions for the typology of ditransitive prosody. In Garrett Nicolai & Eleanor Chodroff (eds.), *Proceedings of the 19th SIGMORPHON workshop on computational research in phonetics, phonology, and morphology*, 29–38. Seattle, Washington: Association for Computational Linguistics. doi:10.18653/v1/2022.sigmorphon-1.4. URL <https://aclanthology.org/2022.sigmorphon-1.4>

Toparlak, Tabita & **Hossep Dolatian**. 2022. Intonation and focus marking in Western Armenian. In Öner Özçelik & Amber Kennedy (eds.), *Proceedings of the 4th Conference on Central Asian Languages and Linguistics (ConCALL)*, 81–94

**Dolatian, Hossep**, Daniel Swanson & Jonathan Washington. 2022b. A Free/Open-Source morphological transducer for Western Armenian. In Victoria Khurshudyan, Nadi Tomeh, Damien Nouvel, Anaid Donabedian & Chahan Vidal-Gorene (eds.), *Proceedings of the workshop on processing language variation: Digital armenian (DigitAm) within the 13th language resources and evaluation conference*, 1–7. Marseille, France: European Language Resources Association. URL <https://aclanthology.org/2022.digitam-1.1>

**Dolatian, Hossep**. 2022c. Variation in a bracketing paradox: A case study in Armenian compounds. In Öner Özçelik & Amber Kennedy (eds.), *Proceedings of the 4th Conference on Central Asian Languages and Linguistics (ConCALL)*, 95–108

**Dolatian, Hossep**. 2022b. Interface constraints for nuclear stress assignment under broad focus in Western Armenian vs. Turkish and Persian. In Öner Özçelik & Amber Kennedy (eds.), *Proceedings of the 4th Conference on Central Asian Languages and Linguistics (ConCALL-4)*, 59–80

2021 **Dolatian, Hossep**, Aniello De Santo & Thomas Graf. 2021a. Recursive prosody is not finite-state. In *Proceedings of the 18th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 11–22. Online: Association for Computational Linguistics. doi:10.18653/v1/2021.sigmorphon-1.2

Karakaş, Ayla, **Hossep Dolatian** & Peter Guekguezian. 2021. Effects of zero morphology on syncretism and allomorphy in Western Armenian verbs. In *Proceedings of the Workshop on Turkic and Languages in Contact with Turkic*, vol. 6, 5056. doi:10.3765/ptu.v6i1.5056

**Dolatian, Hossep**, Nate Koser, Jonathan Rawski & Kristina Strother-Garcia. 2021b. Computational restrictions on iterative prosodic processes. *Proceedings of the Annual Meetings on Phonology 9*. doi:10.3765/amp.v9i0.4920

**Dolatian, Hossep**, Jonathan Rawski & Jeffrey Heinz. 2021c. Strong generative capacity of morphological processes. In Allyson Ettinger, Ellie Pavlick & Brandon Prickett (eds.), *Proceedings of the Society for Computation in Linguistics 2021*, 228–243. Online: Association for Computational Linguistics. URL <https://aclanthology.org/2021.scil-1.21>

2020 Dolatian & Jonathan Rawski. 2020. Finite-state locality in Semitic root-and-pattern morphology. In *Proceedings of the 43rd Annual Penn Linguistics Conference*, vol. 26, URL <https://repository.upenn.edu/handle/20.500.14332/45263>

- Bezrukov, Nikita & **Hossep Dolatian**. 2020. Mobile affixes across Western Armenian: Conflicts across modules. In *University of Pennsylvania Working papers in Linguistics*, vol. 26, 6
- Andersson, Samuel, **Hossep Dolatian** & Yiding Hao. 2020. Computing vowel harmony: The generative capacity of Search & Copy. *Proceedings of the Annual Meetings on Phonology* 8. doi:10.3765/amp.v8i0.4752
- Nelson, Max, **Hossep Dolatian**, Jonathan Rawski & Brandon Prickett. 2020. Probing RNN encoder-decoder generalization of subregular functions using reduplication. In Allyson Ettinger, Gaja Jarosz & Joe Pater (eds.), *Proceedings of the Society for Computation in Linguistics 2020*, 167–178. New York, New York: Association for Computational Linguistics. URL <https://aclanthology.org/2020.scil-1.22>
- Rawski, Jonathan & **Hossep Dolatian**. 2020. Multi-input strictly local functions for tonal phonology. In Allyson Ettinger, Gaja Jarosz & Joe Pater (eds.), *Proceedings of the Society for Computation in Linguistics 2020*, 208–223. New York, New York: Association for Computational Linguistics. URL <https://aclanthology.org/2020.scil-1.26>
- Dolatian, Hossep** & Jonathan Rawski. 2020. Multi-input strictly local functions for templatic morphology. In Allyson Ettinger, Gaja Jarosz & Joe Pater (eds.), *Proceedings of the Society for Computation in Linguistics 2020*, 193–207. New York, New York: Association for Computational Linguistics. URL <https://aclanthology.org/2020.scil-1.25>
- 2019 **Dolatian, Hossep**. 2019. Cyclicity and prosody in Armenian stress-assignment. In *Proceedings of the 42nd Annual Penn Linguistics Conference*, vol. 25, URL <https://repository.upenn.edu/handle/20.500.14332/45222>
- Dolatian, Hossep** & Jeffrey Heinz. 2019. RedTyp: A database of reduplication with computational models doi:10.7275/CKX7-S770. URL <https://openpublishing.library.umass.edu/scil/article/id/1145/>
- 2018 **Dolatian, Hossep** & Jeffrey Heinz. 2018c. Reduplication with finite-state technology. In Daniel Edmiston, Marina Ermolaeva, Emre Hakguder, Jackie Lai, Kathryn Montemurro, Brandon Rhodes, Amara Sankhagowit & Michael Tabatowski (eds.), *Proceedings of the 53rd Annual Meeting of the Chicago Linguistics Society*, vol. 53, 55–77. Chicago: Chicago Linguistics Society
- Dolatian, Hossep**. 2018. Armenian stress: A case for (prosodic) stems. In Daniel Edmiston, Marina Ermolaeva, Emre Hakguder, Jackie Lai, Kathryn Montemurro, Brandon Rhodes, Amara Sankhagowit & Michael Tabatowski (eds.), *Proceedings of the 53rd Annual Meeting of the Chicago Linguistics Society*, vol. 53, 39–53. Chicago: Chicago Linguistics Society
- Dolatian, Hossep** & Jeffrey Heinz. 2018b. Modeling Reduplication with 2-way Finite-State Transducers. In *Proceedings of the Fifteenth Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 66–77. Brussels, Belgium: Association for Computational Linguistics. doi:10.18653/v1/W18-5807

**Dolatian, Hossep** & Jeffrey Heinz. 2018a. Learning reduplication with 2-way finite-state transducers. In Olgierd Unold, Witold Dyrka & Wojciech Wieczorek (eds.), *Proceedings of Machine Learning Research: International Conference on Grammatical Inference*, vol. 93, 67–80. Wrocław, Poland

2017

Athanasopoulou, Angeliki, Irene Vogel & **Hossep Dolatian**. 2017. Acoustic properties of canonical and non-canonical stress in French, Turkish, Armenian and Brazilian Portuguese. In *Interspeech 2017*, 1398–1402. ISCA. doi:[10.21437/Interspeech.2017-1514](https://doi.org/10.21437/Interspeech.2017-1514)