Donald Gray Dunagan

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Education

2020 – *University of Georgia*, Ph.D. Linguistics | Anticipated graduation 05/25

2019 – 2020 *University of Georgia*, M.S. Artificial Intelligence

2013 – 2019 *University of Georgia*, B.S. Computer Science

University of Georgia, A.B. Linguistics

Publications

Journal Articles

1. **Dunagan**, **D.**, Stanojević, M., Coavoux, M., Zhang, S., Bhattasali, S., Li, J., Brennan, J., & Hale, J. (2023). Neural correlates of object-extracted relative clause processing across English and Chinese. *Neurobiology of Language*, 1–19. https://doi.org/10.1162/nol_a_00110
2. Stanojević, M., Brennan, J. R., **Dunagan**, **D.**, Steedman, M., & Hale, J. T. (2023). Modeling structure-building in the brain with CCG parsing and large language models. *Cognitive Science*. https://doi.org/https://doi.org/10.1111/cogs.13312
3. **Dunagan**, **D.**, Zhang, S., Li, J., Bhattasali, S., Pallier, C., Whitman, J., Yang, Y., & Hale, J. (2022). Neural correlates of semantic number: A cross-linguistic investigation. *Brain and Language*, *229*, 105–110. https://doi.org/10.1016/j.bandl.2022.105110

Conference Proceedings

1. Stanojević, M., Bhattasali, S., **Dunagan**, **D.**, Campanelli, L., Steedman, M., Brennan, J., & Hale, J. (2021). Modeling incremental language comprehension in the brain with Combinatory Categorial Grammar. *Proceedings of the Workshop on Cognitive Modeling and Computational Linguistics*, 23–38. https://doi.org/10.18653/v1/2021.cmcl-1.3
2. **Dunagan**, **D. G.**, & Renwick, M. E. (2020). Word-boundary palatalization and production planning in UK English. *Proceedings of Meetings on Acoustics 179ASA*, *42*(1), 060005. https://doi.org/10.1121/2.0001394

Under Review

1. Franzluebbers, B., **Dunagan**, **D.**, Buys, J., & Hale, J. T. (Under Review). Multipath parsing in the brain. *arXiv*. https://doi.org/https://doi.org/10.48550/arXiv.2401.18046
2. Ireland, K., Bridwell, K., Samples, T., & **Dunagan**, **D.** (Under Review). Digital legalese: Syntactic complexity in online terms-of-use and privacy policies.
3. Wolfman, M., **Dunagan**, **D.**, & Hale, J. T. (Under Review). Finding syntax in the brain with Transformer Grammars. https://drive.google.com/file/d/1LbGjGXaKQA8EyOnarA432CPAzLwzIXj1/view

In Prep

1. **Dunagan**, **D.**, Jordan, T., Hale, J. T., Pylkkänen, L., & Chacón, D. A. (In Prep). Rapid visual form-based processing of (some) grammatical features in parallel reading: An EEG study in English.
2. **Dunagan**, **D.**, McLendon, J., Khokhar, H., Hoque, Z., & Chacón, D. A. (In Prep). (Not) moving, fast: Wh-movement and Wh-in-situ structures in rapid parallel reading – EEG studies in English, Urdu, and Mandarin Chinese.

3. *McLendon, J., ***Dunagan**, **D.**, Jordan, T., & Chacón, D. A. (In Prep). Rapid parallel visual presentation provides a new perspective on relative clause processing in Mandarin Chinese.

Awards and Honors

2023
- UGA Graduate School International Travel Award ($1,250)
- UGA Department of Linguistics Outstanding Qualifying Paper

2022
- 3rd place best poster, UGA AI Research Day ($200)
- Society for the Neurobiology of Language Travel Award ($550)
- UGA Outstanding Teaching Assistant Award

2019
- UGA Foreign Travel Assistance Program ($900)
- UGA Institute for Artificial Intelligence Travel Assistance ($600)
- UGA Department of Linguistics Outstanding Undergraduate in Linguistics Award

Talks

Conference Talks

1. **Dunagan**, **D.**, & Chacón, D. A. (2024). Syntax in 300ms:? An EEG study on rapid parallel visual presentation in English. *8th Annual Linguistics Conference at UGA*.
2. **Dunagan**, **D.**, & Chacón, D. A. (2024). Syntax in 300ms:? An EEG study on rapid parallel visual presentation in English. *2024 Annual Meeting of the Linguistic Society of America*.
3. Wolfman, M., & **Dunagan**, **D.** (2024). Syntax in the brain: Modeling human language processing with a syntax-knowledgeable LLM. *8th Annual Linguistics Conference at UGA*.
4. Ireland, K., Samples, T., & **Dunagan**, **D.** (2023). Syntactic complexity in smartphone application contracts. *XIV Congreso Internacional de Lingüística de Corpus*.

Invited Talks

1. Hale, J., & **Dunagan**, **D.** (2022). Brain-Inspired AI: Natural Language. *University of Georgia Meeting for Brain-Inspired AI*.

Posters

Peer-Reviewed Conference Posters

1. **Dunagan**, **D.**, Jordan, T., Wolfman, M. A., & Chacón, D. A. (2024). An EEG investigation into early syntactic processing: A rapid parallel visual presentation study of agreement and WH-dependencies in English. *37th Annual Conference on Human Sentence Processing*.
2. Khokhar, H., McLendon, J., **Dunagan**, **D.**, Hoque, Z., Jordan, T., & Chacón, D. A. (2024). Not moving, fast: An HD-EEG parallel reading study on Urdu and Mandarin Chinese wh-in-situ. *37th Annual Conference on Human Sentence Processing*.
3. Chacón, D. A., & **Dunagan**, **D.** (2023). An EEG functional localizer for identifying visual word form responses in sensor and source space. *15th Annual Meeting of the Society for the Neurobiology of Language*.
4. **Dunagan**, **D.**, & Chacón, D. A. (2023). An EEG investigation into early syntactic processing: A rapid parallel visual presentation study of agreement and WH-dependencies in English. *15th Annual Meeting of the Society for the Neurobiology of Language*.

5. **Dunagan**, **D.**, Coavoux, M., Zhang, S., Bhattasali, S., Li, J., Pallier, C., Spreng, R. N., Brennan, J., & Hale, J. T. (2022). Long-distance dependencies in Chinese, English, and French brains. *14th Annual Meeting of the Society for the Neurobiology of Language*.
6. **Dunagan**, **D.**, Zhang, S., Li, J., Pallier, C., Whitman, J., & Hale, J. T. (2020). Grammatical number in French and Chinese brains. *12th Annual Meeting of the Society for the Neurobiology of Language*.
7. **Dunagan**, **D. G.**, & Renwick, M. E. (2020). Word-final palatalization and production planning in English. *The Journal of the Acoustical Society of America*, *148*(4), 2506–2506.
8. Brennan, J., Martin, A. E., **Dunagan**, **D.**, Meyer, L., & Hale, J. (2019). Resolving dependencies during naturalistic listening. *11th Annual Meeting of the Society for the Neurobiology of Language*.

Non-Reviewed Poster Presentations

1. **Dunagan**, **D.**, Coavoux, M., Zhang, S., Bhattasali, S., Li, J., Brennan, J., & Hale, J. T. (2022). Long-distance dependencies in Chinese and English brains. *University of Georgia Artificial Intelligence Research Day*.
2. **Dunagan**, **D.**, Coavoux, M., Zhang, S., Bhattasali, S., Li, J., Brennan, J., & Hale, J. T. (2022). Long-distance dependencies in Chinese, and English brains. *Collaborative Research in Computational Neuroscience Principal Investigator Meeting*.

Assistantships

University of Georgia

- 2020 – Graduate Research Assistantship, with Prof. John Hale (Tuition Waiver + Stipend)
- Spring 2021 Teaching and Technology Assistant, with Prof. Margaret Renwick, Quantitative Methods in Linguistics (Stipend)
- 2019 – 2020 Graduate Student Data Analyst, with CVIOG ITOS (Tuition Waiver + Stipend)
- 2018 – 2019 Undergraduate Student Data Analyst, with CVIOG ITOS (Stipend)
- Assistant in system administration and corpora curation, with Natural Language Corpora at UGA (Stipend)

Teaching

University of Georgia

- Spring 2024 Python Programming for Language and Linguistics (IoR)
- Spring 2023 Natural Language Processing (TA)
- Fall 2021 Natural Language Processing (TA)
- Spring 2021 Quantitative Methods in Linguistics (TA)

Languages and Skills

- Languages English: native | Spanish: basic | French: beginner
- Programming Primary: Python | Secondary: R | Have Used: Java, JavaScript MATLAB, C++