

Frames White

Curriculum Vitae

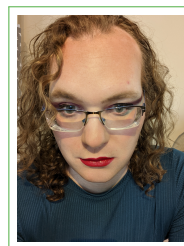
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Education

- 2015 March– 2018 Oct **PhD Candidature**, *The University of Western Australia*
Thesis: “On the surprising capacity of linear combinations of embeddings for natural language processing”. (Machine learning for natural language processing)
- 2009–2014 **Bachelor of Engineering, with Honours**, *The University of Western Australia*
(Majoring in Electrical and Electronic Engineering)
- 2009–2014 **Bachelor of Computer and Mathematical Sciences**, *The University of Western Australia*
(Double major in Pure Mathematics, and Computation)

Employment History

- 2018 Oct – Present **Research Software Engineer**, *Invenia Labs*, Cambridge, UK
- 2014 Nov – 2018 Oct **Research and Teaching Assistant**, *The University of Western Australia*, Perth, WA, (Casual)
- 2011 July – 2012 March **Agile Platforms Developer**, *Bankwest*, Perth, WA, Australian Computing Society Workplace Integrated Learning Scholarship

Awards

- 2022 Julia Community Prize “For her many technical and community contributions across the Julia ecosystem.”
- 2021 Best Poster Award AbstractDifferentiation.jl: Backend-Agnostic Differentiable Programming in Julia, Frank Schäfer et al. (NeurIPS Differentiable Programming Workshop)
- 2020 DSTG Best Contribution to Science Award WEEmbSim: A Simple yet Effective Metric for Image Captioning, Naeha Sharif et al. (International Conference on Digital Image Computing: Techniques and Applications)
- 2016 Best Student Paper Award Generating Bags of Words from the Sums of their Word Embeddings, White et al (Conference on Intelligent Text Processing and Computational Linguistics)

Organisations

- 2016 April – 2019 April **Administrator of the Board**, *Western Australian Science Fiction Foundation*
- 2015 March – ∞ **Honorary Life Member**, *Unigames*, (UWA Student Society)

Open Source

- Creator of *DataDeps.jl*, *CorpusLoaders.jl*, and numerous other packages relating to replicatable natural language and data science research in julia.
- Maintainer of *TensorFlow.jl*, the julia binding for Google’s very popular machine learning framework.

Contributor to a large number of open source packages in the julia ecosystem and beyond. Full list of open source contributions can be found at <https://github.com/oxinabox>

Publications

Note: I used **Lyndon White** as a pen-name up until February 2022. It thus appears as such in this section. I no longer use that name anywhere else.

- [1] Lyndon White, Lyndon While, Ben Deeks, and Farid Boussaid. Transistor sizing using particle swarm optimisation. In *IEEE Symposium Series on Computational Intelligence*, pages 259–266, Dec 2015.
- [2] Lyndon White, Roberto Togneri, Wei Liu, and Mohammed Bennamoun. How well sentence embeddings capture meaning. In *Proceedings of the 20th Australasian Document Computing Symposium*, ADCS '15, pages 9:1–9:8. ACM, 2015.
- [3] Lyndon White, Roberto Togneri, Wei Liu, and Mohammed Bennamoun. Generating bags of words from the sums of their word embeddings. In *17th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing)*, 2016. Best Student Paper Award.
- [4] Lyndon White, Roberto Togneri, Wei Liu, and Mohammed Bennamoun. Modelling sentence generation from sum of word embedding vectors as a mixed integer programming problem. In *IEEE International Conference on Data Mining: High Dimensional Data Mining Workshop (ICDM: HDM)*, 2016.
- [5] Lyndon White, Roberto Togneri, Wei Liu, and Mohammed Bennamoun. Finding word sense embeddings of known meaning. *19th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing)*, 2018.
- [6] Naeha Sharif, Lyndon White, , Mohammed Bennamoun, and Syed Afaq Ali Shah. Learning-based composite metrics for improved caption evaluation. In *Proceedings of the ACL Student Research Workshop*. Association for Computational Linguistics, 2018.
- [7] Lyndon White, Roberto Togneri, Wei Liu, and Mohammed Bennamoun. Novelperspective: Identifying point of view characters. In *Proceedings of ACL 2018, System Demonstrations*. Association for Computational Linguistics, 2018.
- [8] Lyndon White, Roberto Togneri, Wei Liu, and Mohammed Bennamoun. *Neural Representations of Natural Language*. Studies in Computational Intelligence (Book). Springer Singapore, 2018.
- [9] Naeha Sharif, Lyndon White, Mohammed Bennamoun, and Syed Afaq Ali Shah. Nneval: Neural network based evaluation metric. In *Proceedings of the 15th European Conference on Computer Vision*. Springer Lecture Notes in Computer Science, 2018.
- [10] Jonathan Malmaud and Lyndon White. Tensorflow. jl: An idiomatic julia front end for tensorflow. *Journal of Open Source Software*, 3(31):1002, 2018.
- [11] Lyndon White. *On the surprising capacity of linear combinations of embeddings for natural language processing*. PhD thesis, The University of Western Australia, 2019.
- [12] Naeha Sharif, Lyndon White, Mohammed Bennamoun, Wei Liu, and Syed Afaq Ali Shah. Lceval: Learned composite metric for caption evaluation. *International Journal of Computer Vision*, 127(10):1586–1610, October 2019.
- [13] Mahdi Jamei, Letif Mones, Alex Robson, Lyndon White, James Requeima, and Cozmin Ududec. Meta-optimization of optimal power flow. In *ICML Workshop, Climate Change: How Can AI Help*, 2019.
- [14] Ayush Kaushal, Lyndon White, Mike Innes, and Rohit Kumar. Wordtokenizers.jl: Basic tools for tokenizing natural language in julia. *Journal of Open Source Software*, 5(46):1956, 2020.
- [15] Naeha Sharif, Lyndon White, Mohammed Bennamoun, Wei Liu, and Syed Afaq Ali Shah. Wembsim: A simple yet effective metric for image captioning. In *Digital Image Computing: Techniques and Applications, 2020 (DICTA 2020)*, United States, November 2020. IEEE, Institute of Electrical and Electronics Engineers. DSTG Best Contribution to Science Award.
- [16] Frank Schäfer, Mohamed Tarek, Lyndon White, and Chris Rackauckas. Abstractdifferentiation.jl: Backend-agnostic differentiable programming in julia. In *NeurIPS Differentiable Programming Workshop*, 2021. Best Poster Award.