

Jorge Balazs Thenot

Ph.D. Student

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🎓 scholar.google.com/citations?user=lqr7zaQAAAAJ
🔗 jabalazs.github.io

Fourth-year Ph.D. student at the University of Tokyo under the supervision of Prof. Yutaka Matsuo. I am currently working on Deep Learning applied to Natural Language Processing, specifically on how exploiting morphological information can help in obtaining better word representations.

🎓 Education

2020 Ph.D. (expected), The University of Tokyo, Japan
2015 Industrial Engineer, University of Chile, Chile
2012 Bachelor of Engineering, University of Chile, Chile

📁 Experience

September 2016 | Ph.D. Student, The University of Tokyo, Japan
March 2020

June 2019 | Applied Scientist Intern, Amazon, Seattle, US
September 2019

TensorFlow

October 2017 | Intern, Cogent Labs, Japan
December 2017
➤ Created a baseline model for automatically classifying consumer complaints
➤ Helped in developing a Named-entity recognizer

Pytorch

April 2016 | Research Student, The University of Tokyo, Japan
August 2016

Tensorflow Pytorch

August 2014 | Senior Student, Web Intelligence Center, University of Chile, Chile
March 2016
➤ Developed an Opinion Mining platform prototype for analyzing tweets mentioning a Chilean retail company
➤ Studied how to predict web users' click intentions by analyzing eye tracking, pupil dilation and EEG data

Python Django Amazon EC2 MongoDB

March 2014 | Part-time Analyst, Scopix Solutions, Chile
October 2014
➤ Created several data visualization dashboards
➤ Implemented ETL processes for moving data from data servers to production servers, and preparing them for visualization

Tableau PostgreSQL Python

☰ Competences

Programming Languages: **Python, Bash**, JavaScript, Java, \LaTeX
Technologies: **Pytorch**, Tensorflow, UNIX, Git, NumPy, SciPy, scikit-learn, NLTK, Pandas, Matplotlib

🗣 Languages

Spanish (Native) ● ● ● ● ●
English ● ● ● ● ○
French ● ● ● ● ○
Japanese ● ● ○ ○ ○

Yutaka Matsuo, *Associate Professor*
Department of Technology Management for Innovation
The University of Tokyo
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Juan D. Velasquez, *Professor*
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Publications

- [1] **J. A. Balazs** and Y. Matsuo, “Gating Mechanisms for Combining Character and Word-level Word Representations: An Empirical Study,” in *Proceedings of NAACL-HLT Student Research Workshop*, (Minneapolis, USA), Association for Computational Linguistics (ACL), June 2019. Forthcoming.
- [2] **J. A. Balazs**, E. Marrese-Taylor, and Y. Matsuo, “IIIDYT at IEST 2018: Implicit Emotion Classification with Deep Contextualized Word Representations,” in *Proceedings of the 9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA) co-located with EMNLP*, (Brussels, Belgium), Association for Computational Linguistics (ACL), November 2018. **(Best System Analysis Paper)**.
- [3] P. Loyola, E. Marrese-Taylor, **J. A. Balazs**, Y. Matsuo, and F. Satoh, “Content Aware Source Code Change Description Generation,” in *Proceedings of the 11th International Conference on Natural Language Generation (INLG)*, (Tilburg, The Netherlands), Association for Computational Linguistics (ACL), November 2018.
- [4] S. Ilic, E. Marrese-Taylor, **J. A. Balazs**, and Y. Matsuo, “Deep contextualized word representations for detecting sarcasm and irony,” in *Proceedings of the 9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA)*, (Brussels, Belgium), Association for Computational Linguistics (ACL), November 2018.
- [5] E. Marrese-Taylor, S. Ilic, **J. A. Balazs**, H. Prendinger, and Y. Matsuo, “IIIDYT at SemEval-2018 Task 3: Irony detection in English tweets,” in *Proceedings of the 12th workshop on semantic evaluation (SemEval)*, co-located with NAACL-HLT, (New Orleans, USA), Association for Computational Linguistics (ACL), June 2018.
- [6] **J. A. Balazs**, E. Marrese-Taylor, P. Loyola, and Y. Matsuo, “Refining Raw Sentence Representations for Textual Entailment Recognition via Attention,” in *Proceedings of the 2nd Workshop on Evaluating Vector Space Representations for NLP (RepEval) co-located with EMNLP*, (Copenhagen, Denmark), Association for Computational Linguistics (ACL), September 2017.
- [7] E. Marrese-Taylor, **J. A. Balazs**, and Y. Matsuo, “Mining fine-grained opinions on closed captions of YouTube videos with an attention-RNN,” in *Proceedings of the 8th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA) co-located with EMNLP*, (Copenhagen, Denmark), Association for Computational Linguistics (ACL), September 2017.
- [8] G. Slanzi, **J. A. Balazs**, and J. D. Velásquez, “Combining eye tracking, pupil dilation and EEG analysis for predicting web users click intention,” *Information Fusion*, vol. 35, pp. 51 – 57, 2017.
- [9] **J. A. Balazs** and J. D. Velásquez, “Opinion Mining and Information Fusion: A survey,” *Information Fusion*, vol. 27, pp. 95 – 110, 2016.
- [10] **J. A. Balazs**, “Design, Development and Implementation of a Web Opinion Mining Application for Identifying Twitter Users’ Sentiment Towards a Chilean Retail Company,” Thesis, 2015.

Certificates and Awards

- **Japanese Government MEXT Scholarship** (Apr 2016 - Aug 2019)
Awarded to foreign students to pursue postgraduate studies in Japan.

Service and Professional Activities

- **Reviewer for Workshops**: Implicit Emotion Shared Task 2018 (WASSA, co-located with EMNLP).
- **Co-Organizer**: Machine Learning Tokyo Meetup Group

Talks

- Machine Learning Tokyo Meetup, March 2019: “NLP Basics”¹ in the context of a Sequence to Sequence Learning Workshop.
- Machine Learning Tokyo Meetup, March 2019. Paper Reading of “Neural Machine Translation by Jointly Learning to Align and Translate”
- Machine Learning Tokyo Meetup, February 2019. Paper Reading of “A Unified Architecture for Natural Language Processing: Deep Neural Networks with Multitask Learning”²

¹<https://kutt.it/PpqDRF>

²https://jabalazs.github.io/assets/unified_architecture_reading.pdf

- Implicit Emotion Shared Task @ WASSA (EMNLP), oral presentation, October 2018: “Implicit Emotion Classification with Deep Contextualized Word Representations”,³
- Machine Learning Tokyo Meetup, September 2018: “Intro to NLP Research: From strings to tokens to vectors”⁴

³<https://speakerdeck.com/jabalazs/implicit-emotion-classification-with-deep-contextualized-word-representations>

⁴<https://goo.gl/cqeDqx>