

Edison Marrese Taylor

Ph.D.

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Researcher working on Natural Language Processing, Machine Learning and Representation Learning.

Education

2017 Ph.D., The University of Tokyo, Japan
2013 Industrial Engineer, University of Chile, Chile
2011 Bachelor of Engineering, University of Chile, Chile

Experience

Today | Researcher, The University of Tokyo, Japan
November 2018

February 2018 | Visiting Researcher, The University of Waikato, New Zealand
May 2018 > Department of Computer Science

October 2017 | Research Engineer Intern, Cogent Labs, Tokyo, Japan
December 2017

October 2013 | Research Student, The University of Tokyo, Japan
October 2014


Competences

Programming Languages: **Python**, Java
Machine Learning Libraries: TensorFlow, **PyTorch**
O.S.: Ubuntu

Languages

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

References

Yutaka Matsuo, *Professor*
Department of Technology Management for Innovation
The University of Tokyo
 matsuo@weblab.t.u-tokyo.ac.jp

Juan D. Velasquez, *Professor*
Department of Industrial Engineering
University of Chile
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Grants and Awards

2013-2018: Monbukagakusho MEXT Graduate Scholarship
2018: NVIDIA GPU Grant (Approx. 2,500 USD)

Teaching Experience

October 2018 | Lecturer, The University of Tokyo, Japan
January 2019 > Introduction to Machine Learning

March 2013 | Lecturer, University of Chile, Santiago, Chile
September 2013 > Introduction to Information and Communications Technology

Conference Program Committees

Conferences: NAACL 2019, ACL 2019/2020, EMNLP 2019, INLG 2019, AAAI 2020
Workshops: SRW-ACL 2018, WASSA 2019

Talks

- 22/02/2018: Research Talk at The Machine Learning Group, Waikato University <https://www.cs.waikato.ac.nz/ml/>
- 03/05/2018: Research Talk at the Language and Social Computing Groups, DATA61/CSIRO <https://research.csiro.au/lasc/>
- 06/05/2018: Research Talk at Mark Johnson's group, Macquarie University <http://web.science.mq.edu.au/~mjohnson/>
- 11/05/2018: Research Talk at The Computational Media Lab, ANU <http://cm.cecs.anu.edu.au/>
- 08/09/2018: NLP Tutorial Part 1, Machine Learning Tokyo Meetup <https://www.meetup.com/es/Machine-Learning-Tokyo/events/254108656/>
- 04/10/2018: NLP Tutorial Part 2, Machine Learning Tokyo Meetup <https://www.meetup.com/es/Machine-Learning-Tokyo/events/254956758/>
- 30/11/2018: Research Talk at Okazaki-Lab, Tokyo Institute of Technology <http://www.nlp.c.titech.ac.jp>
- 17/02/2020: Invited Talk at the Knowledge and Information Research Team, Artificial Intelligence Research Center (AIRC), AIST <https://www.airc.aist.go.jp/en/kirt/>

Students

- Jorge A. Balazs:** Ph.D. Student. Thesis: “Exploiting morphological information for better word representations” <http://jabalazs.github.io/>. The University of Tokyo.
- Chen Xi:** Master's Student. Thesis: “A study on predicting the success of ICOs using Machine Learning”. The University of Tokyo.
- Shuchen Yang:** Master's Student. Thesis: “An Analysis on Cryptocurrency Related Search Behavior using Yahoo Query Logs”. The University of Tokyo.

Publications

- [1] 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*, Copenhagen, Denmark, September 2017. Association for Computational Linguistics.
- [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*, pages 50–56, Brussels, Belgium, November 2018. Association for Computational Linguistics.
- [3] 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*, pages 2–7, Brussels, Belgium, November 2018. Association for Computational Linguistics.
- [4] 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*, pages 119–128, Tilburg University, The Netherlands, November 2018. Association for Computational Linguistics.
- [5] P. Loyola, E. Marrese-Taylor, and Y. Matsuo. A neural architecture for generating natural language descriptions from source code changes. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*, pages 287–292, Vancouver, Canada, July 2017. Association for Computational Linguistics.
- [6] 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 and Social Media Analysis (WASSA)*, Copenhagen, Denmark, September 2017. Association for Computational Linguistics.
- [7] E. Marrese-Taylor, S. Ilic, J. A. Balazs, Y. Matsuo, and H. Prendinger. IIIDYT at SemEval-2018 Task 3: Irony detection in English tweets. In *Proceedings of the 12th International Workshop on Semantic Evaluation (SemEval-2018)*, New Orleans, USA, June 2018. Association for Computational Linguistics.
- [8] E. Marrese-Taylor, P. Loyola, and Y. Matsuo. An Edit-centric Approach for Wikipedia Article Quality Assessment. In *Proceedings of the 5th Workshop on Noisy User-generated Text*, pages 381–386, Hong Kong, China, November 2019. Association for Computational Linguistics.
- [9] E. Marrese-Taylor and Y. Matsuo. EmoAtt at Emolnt Shared Task 2017: Inner attention sentence embedding for emotion intensity. In *Proceedings of the 8th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA)*, Copenhagen, Denmark, September 2017. Association for Computational Linguistics.
- [10] E. Marrese-Taylor and Y. Matsuo. Replication issues in syntax-based aspect extraction for opinion mining. In *Proceedings of the Student Research Workshop at the 15th Conference of the European Chapter of the Association for Computational Linguistics*, pages 23–32, Valencia, Spain, April 2017. Association for Computational Linguistics.

- [11] E. Marrese-Taylor, A. Nakajima, Y. Matsuo, and O. Yuichi. Learning to Automatically Generate Fill-In-The-Blank Quizzes. In *Proceedings of the 5th Workshop on Natural Language Processing Techniques for Educational Applications*, pages 152–156, Melbourne, Australia, 2018. Association for Computational Linguistics.
- [12] E. Marrese-Taylor, M. Reid, and Y. Matsuo. Variational Inference for Learning Representations of Natural Language Edits. In *Proceedings of the 5th Workshop on Representation Learning for NLP (non-archival)*. Association for Computational Linguistics, July 2020.
- [13] E. Marrese-Taylor, C. Rodriguez-Opazo, J. A. Balazs, S. Gould, and Y. Matsuo. A Multi-modal Approach to Fine-grained Opinion Mining on Video Reviews. In *Proceedings of the 2nd Grand Challenge and Workshop on Human Multimodal Language (Challenge-HML) (to appear)*. Association for Computational Linguistics, July 2020.
- [14] E. Marrese-Taylor, J. Velasquez, and F. Bravo-Marquez. Opinion Zoom: A Modular Tool to Explore Tourism Opinions on the Web. In *Web Intelligence (WI) and Intelligent Agent Technologies (IAT), 2013 IEEE/WIC/ACM International Joint Conferences on*, volume 3, pages 261–264, Nov. 2013.
- [15] E. Marrese-Taylor, J. D. Velásquez, and F. Bravo-Marquez. A novel deterministic approach for aspect-based opinion mining in tourism products reviews. *Expert Systems with Applications*, 41(17):7764 – 7775, 2014.
- [16] E. Marrese-Taylor, J. D. Velásquez, F. Bravo-Marquez, and Y. Matsuo. Identifying Customer Preferences about Tourism Products Using an Aspect-based Opinion Mining Approach. *Procedia Computer Science*, 22(0):182 – 191, 2013. 17th International Conference in Knowledge Based and Intelligent Information and Engineering Systems - {KES2013}.
- [17] M. Reid, E. Marrese-Taylor, and Y. Matsuo. Combining pretrained high-resource embeddings and subword representations for low-resource languages. In *Proceedings of the 1st AfricaNLP Workshop*, 2020.
- [18] C. Rodriguez-Opazo, E. Marrese-Taylor, F. S. Saleh, H. Li, and S. Gould. Proposal-free Temporal Moment Localization of a Natural-Language Query in Video using Guided Attention. In *The IEEE Winter Conference on Applications of Computer Vision (WACV)*, March 2020.
- [19] J. Velasquez and E. Marrese-Taylor. Tools for External Plagiarism Detection in DOCODE. In *Web Intelligence (WI) and Intelligent Agent Technologies (IAT), 2014 IEEE/WIC/ACM International Joint Conferences on*, volume 2, pages 296–303, Aug. 2014.
- [20] J. D. Velasquez, Y. Covacevich, F. Molina, E. Marrese-Taylor, C. Rodriguez, and F. Bravo-Marquez. DOCODE 3.0 (DOCument COpy DEtector). *Inf. Fusion*, 27:64–75, Jan. 2016.