

# Jorge Balazs Thenot

Ph.D.

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## 🎓 Education

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

## 📁 Experience

Present July 2021	<b>Applied Scientist II, Amazon, Berlin</b> AWS MXNet Spark Airflow
June 2021 July 2020	<b>Applied Scientist I, Amazon, Berlin</b> AWS MXNet
March 2020 September 2016	<b>Ph.D. Student, The University of Tokyo</b>
September 2019 June 2019	<b>Applied Scientist Intern, Amazon, Seattle</b> TensorFlow AWS
December 2017 October 2017	<b>Intern, Cogent Labs, Tokyo</b> <ul style="list-style-type: none"><li>&gt; Created a baseline model for automatically classifying consumer complaints</li><li>&gt; Helped in developing a Named-entity recognizer</li></ul> Pytorch
August 2016 April 2016	<b>Research Student, The University of Tokyo</b> TensorFlow Pytorch
March 2016 August 2014	<b>Senior Student, Web Intelligence Center, The University of Chile</b> <ul style="list-style-type: none"><li>&gt; Developed an Opinion Mining platform prototype for analyzing tweets mentioning a Chilean retail company</li><li>&gt; Studied how to predict web users' click intentions by analyzing eye tracking, pupil dilation and EEG data</li></ul> Python Django Amazon EC2 MongoDB
October 2014 March 2014	<b>Part-time Analyst, Scopix Solutions, Santiago, Chile</b> <ul style="list-style-type: none"><li>&gt; Created several data visualization dashboards</li><li>&gt; Implemented ETL processes for moving data from data servers to production servers, and preparing them for visualization</li></ul> Tableau PostgreSQL Python

## 📄 Competences

Programming Languages: **Python, Bash**, Rust, Java, JavaScript,  $\text{\LaTeX}$

Technologies: **Pytorch**, MXNet, Tensorflow, UNIX, Git, NumPy, SciPy, scikit-learn, NLTK, Pandas, Matplotlib

## 🗣️ Languages

Spanish (Native) ● ● ● ● ●

English ● ● ● ● ●

French ● ● ● ● ●

German ● ● ○ ○ ○

Japanese ● ○ ○ ○ ○

## Teaching Experience

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January 2020 | Teaching Assistant, The University of Tokyo  
October 2019 | Introduction to Machine Learning

January 2019 | Teaching Assistant, The University of Tokyo  
October 2018 | Introduction to Machine Learning

December 2015 | Teaching Assistant, The University of Chile  
August 2015 | Web Intelligence

December 2014 | Teaching Assistant, The University of Chile  
August 2014 | Web Intelligence

## Certificates and Awards

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- > **Japanese Government MEXT Scholarship** (Apr 2016 - Aug 2019)  
Awarded to foreign students to pursue postgraduate studies in Japan.
- > **Graduated With the Highest Distinction** (Dec 2015)  
University of Chile

## Service and Professional Activities

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- > **Reviewing:**
  - 2021. International Conference on Learning Representations (ICLR). Outstanding reviewer.
  - 2020. International Conference on Machine Learning (ICML). Top 33% reviewer.
  - 2020. ACL Student Research Workshop (ACL SRW)
  - 2020. ACL Demonstration Track
  - 2018. Implicit Emotion Shared Task (WASSA, hosted at EMNLP).
- > **Co-Organizer:** 2018, 2019. Machine Learning Tokyo Meetup Group

## Talks

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- > Machine Learning Tokyo Meetup, March 2019: “NLP Basics”<sup>1</sup> 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”<sup>2</sup>
- > Implicit Emotion Shared Task @ WASSA (EMNLP), oral presentation, October 2018: “Implicit Emotion Classification with Deep Contextualized Word Representations”,<sup>3</sup>
- > Machine Learning Tokyo Meetup, September 2018: “Intro to NLP Research: From strings to tokens to vectors”<sup>4</sup>

## References

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Yutaka Matsuo, *Associate Professor*

Department of Technology Management for Innovation  
The University of Tokyo

✉ [matsuo@weblab.t.u-tokyo.ac.jp](mailto:matsuo@weblab.t.u-tokyo.ac.jp)

Juan D. Velasquez, *Professor*

Department of Industrial Engineering  
The University of Chile

✉ [jvelasque@dii.uchile.cl](mailto:jvelasque@dii.uchile.cl)

Simone Filice, *Applied Scientist*

Alexa Shopping  
Amazon

✉ [filicesf@amazon.com](mailto:filicesf@amazon.com)

## Publications

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- [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.
- [2] **J. A. Balazs**, E. Marrese-Taylor, and Y. Matsuo, “IIDYT at IEST 2018: Implicit Emotion Classification with Deep Contextualized Word Representations,” in *Proceedings of the 9th Workshop on Computational Approaches to Subjectivity, Sentiment and*

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<sup>1</sup><https://kutt.it/PpqDRF>

<sup>2</sup>[https://jabalazs.github.io/assets/unified\\_architecture\\_reading.pdf](https://jabalazs.github.io/assets/unified_architecture_reading.pdf)

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

<sup>4</sup><https://goo.gl/cqeDqx>

*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)*, (Tillburg, 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, “IIDYT 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.