

# CURRICULUM VITAE

FELIPE JOSÉ BRAVO MÁRQUEZ

---

## PERSONAL INFORMATION

**Nationality:** Chile.

**Address:** 40c May Stret, Hamilton, New Zealand.

**Date of Birth:** 3rd of January 1984.

**Passport Number:** P05083829.

**Phone Number:** +642-20647146.

**E-mail:** felipebravom@gmail.com.

**Web Page:** <http://www.cs.waikato.ac.nz/~fjb11/>.

**Areas of Interest:** Data Mining, Machine Learning, Information Retrieval, Natural Language Processing, Social Media Analysis.

---

## EDUCATION

- |           |   |
|-----------|---|
| 2014-2017 | PhD in Computer Science, The University of Waikato, New Zealand (thesis submitted).         |
| 2011-2013 | M.Sc. in Computer Science, University of Chile (summa cum laude).                           |
| 2010      | Professional Degree in Industrial Engineering, University of Chile (summa cum laude).       |
| 2010      | Professional Degree in Computer Science Engineering, University of Chile (summa cum laude). |
| 2005-2009 | Bachelor of Science in Industrial Engineering, University of Chile.                         |
| 2003-2008 | Bachelor in Computer Science, University of Chile.  |

---

## WORK EXPERIENCE

- |           |  |
|-----------|--|
| 2011-2013 | Research Engineer, <i>Yahoo! Labs Latin America</i> .<br><a href="http://labs.yahoo.com/Yahoo_Labs_Santiago">http://labs.yahoo.com/Yahoo_Labs_Santiago</a> |
|-----------|--|

- 2009- 2011      Researcher and Software Developer, *Web Intelligence Consortium Chile Research Centre*.  
<http://wi.dii.uchile.cl>
- 2009              Internship, *Simple*, Software Developer.  
<http://www.simple.cl>.
- 2009              Internship, *Previred*, Business Process Management Area.  
<http://www.previred.com>.
- 2005-2006      Internship, *Vitanet*, Software Developer.  
<http://www.vitanet.cl>.

#### *Scholarships*

- 2017              University of Waikato Doctoral Publications Scholarship.
- 2016              IEEE student travel grant to attend the 2016 IEEE/WIC/ACM International Conference on Web Intelligence in Omaha, Nebraska, USA.
- 2014-2017      University of Waikato Doctoral Scholarship
- 2011-2012      National Scientific and Technological Research Commission (CONICYT) Scholarship for master's degree studies at Chilean Universities.

---

## PUBLICATIONS

### *Journal Papers*

1. F. Bravo-Marquez, E. Frank, and B. Pfahringer *Building a Twitter Opinion Lexicon from Automatically-annotated Tweets*, In *Knowledge-Based Systems* Volume 108, September 2016, Pages 65–78.
2. J.D. Velásquez, Y. Covacevich, F. Molina, E. Marrese-Taylor, C. Rodríguez, and F. Bravo-Marquez *DOCODE 3.0 (DOcument COpy DETector): A system for plagiarism detection by applying an information fusion process from multiple documental data sources*, In *Information Fusion* Volume 27, January 2016, Pages 64–75.
3. E. Marrese-Taylor, J.D. Velásquez, F. Bravo-Marquez *A Novel Deterministic Approach for Aspect-Based Opinion Mining in Tourism Products Reviews*, In *Expert Systems with Applications* Volume 41, Issue 17, 1 December 2014, Pages 7764–7775.
4. F. Bravo-Marquez, M. Mendoza and B. Poblete *Meta-Level Sentiment Models for Big Social Data Analysis*, In *Knowledge-Based Systems* Volume 69, October 2014, Pages 86–99.

*Conference and Workshop Papers*

1. F. Bravo-Marquez, E. Frank, and B. Pfahringer *Annotate-Sample-Average (ASA): A New Distant Supervision Approach for Twitter Sentiment Analysis*, In *The biennial European Conference on Artificial Intelligence (ECAI'16)*. The Hague, Netherlands.
2. F. Bravo-Marquez, E. Frank, and B. Pfahringer *From opinion lexicons to sentiment classification of tweets and vice versa: a transfer learning approach*, In *The IEEE/WIC/ACM International Conference on Web Intelligence (WI'16)*. Omaha, Nebraska, USA.
3. F. Bravo-Marquez, E. Frank, S. Mohammad, and B. Pfahringer *Determining Word-Emotion Associations from Tweets by Multi-Label Classification*, In *The IEEE/WIC/ACM International Conference on Web Intelligence (WI'16)*. Omaha, Nebraska, USA.
4. F. Bravo-Marquez, E. Frank, and B. Pfahringer *Positive, Negative, or Neutral: Learning an Expanded Opinion Lexicon from Emoticon-annotated Tweets*, In *IJCAI '15: Proceedings of the 24th International Joint Conference on Artificial Intelligence*. Buenos Aires, Argentina 2015.
5. F. Bravo-Marquez, E. Frank, and B. Pfahringer *From Unlabelled Tweets to Twitter-specific Opinion Words*, In *SIGIR '15: Proceedings of the 38th International ACM SIGIR Conference on Research & Development in Information Retrieval*. Santiago, Chile 2015.
6. M. Mendoza, F. Bravo-Marquez, B. Poblete, and D. Gayo-Avello *Long-memory Time Series Ensembles for Concept Shift Detection*, In *KDD-BigMine '13 2nd International Workshop on Big Data, Streams and Heterogeneous Source Mining: Algorithms, Systems, Programming Models and Applications*. Chicago, USA 2013.
7. F. Bravo-Marquez, M. Mendoza and B. Poblete *Combining Strengths, Emotions and Polarities for Boosting Twitter Sentiment Analysis*, In *KDD-WISDOM '13: 2nd Workshop on Issues of Sentiment Discovery and Opinion Mining*. Chicago, USA 2013.
8. E. Marrese-Taylor, J.D. Velásquez, F. Bravo-Marquez *OpinionZoom, a modular tool to explore tourism opinions on the Web*, In *WI '2013: IEEE/WIC/ACM International Conference on Web Intelligence*. Industry Track. Atlanta, USA.
9. E. Marrese-Taylor, J.D. Velásquez, F. Bravo-Marquez, Y. Matsuo *Identifying Customer Preferences about Tourism Products using an Aspect-Based Opinion Mining Approach*, In *KES '13: 17th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems. Kitakyushu, Japan, 2013*. Procedia Computer Science.

10. F. Bravo-Marquez, D. Gayo-Avello, M. Mendoza and B. Poblete *Opinion Dynamics of Elections in Twitter*, In *LA-WEB '12: 8th Latin American Web Congress*. Cartagena de Indias, Colombia, 2012. IEEE Computer Society's Conference Publishing Services (CPS).
11. F. Bravo-Marquez and M. Manriquez *A Zipf-Like Distant Supervision Approach for Multi-Document Summarization Using Wikinews Articles*, In *SPIRE '12: 19th International Symposium on String Processing and Information Retrieval*. Cartagena de Indias, Colombia, 2012. Springer-Verlag.
12. F. Bravo-Marquez, G. L'Huillier, P. Moya, S.A. Rios, and J.D. Velasquez *An Automatic Text Comprehension Classifier Based on Mental Models and Latent Semantic Features* , In *I-KNOW '2011: 11th International Conference on Knowledge Management and Knowledge Technologies*. Grass, Austria. ACM ICPS.
13. F. Bravo-Marquez, G. L'Huillier, S.A. Rios, and J.D. Velasquez *A Text Similarity Meta-Search Engine Based on Document Fingerprints and Search Results Records* , In *WI '2011: IEEE/WIC/ACM International Conference on Web Intelligence*. Lyon, France.
14. F. Bravo-Marquez, G. L'Huillier, S. Rios, and J.D. Velasquez *Hypergeometric Language Model and Zipf-like Scoring Function for Web Document Similarity Retrieval*, In *SPIRE '10: 17th International Symposium on String Processing and Information Retrieval*. Los Cabos, Mexico, 2010. Springer-Verlag.
15. F. Bravo-Marquez, G. L'Huillier, S. Rios, J.D. Velasquez, and L. Guerrero *DOCODE-lite: A Meta-Search Engine for Document Similarity Retrieval*, In *KES '10: 14th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems*. Cardiff, Wales, 2010. Springer-Verlag.

---

## TEACHING EXPERIENCE

- |             |  |
|-------------|--|
| Spring 2013 | (Lecturer) Databases Management Diploma, Informatic Engineering Department (postgraduate), Universidad Técnica Federico Santa María. |
| Spring 2012 | (Lecturer) Data Mining (CC5206/CC71Q), Computer Science Department (undergraduate and postgraduate), University of Chile.            |
| Fall 2011   | (Lecturer) Information Technologies and Business Process Redesign (IN72K), Master in Operations Management, University of Chile.     |

- Spring 2010 (TA) Web Mining (IN4522), Industrial Engineering, University of Chile.
- Spring 2010 (TA) ICT for globalization (IN7B0), Master in Management for Globalization, University of Chile.
- 

## THESIS GUIDANCE

- (2013) Edison Marrese Taylor, Co-supervisor with Juan Velásquez, “Diseño e Implementación de una Aplicación de Web Opinion Mining para Identificar Preferencias de Usuarios sobre Productos Turísticos de la X Región de los Lagos”, Industrial Engineering, U. of Chile.
  - (2012) Luis Maldonado, Co-supervisor with Mauricio Marín, “Análisis de Sentimiento en el Sistema de Red Social Twitter”, Execution Informatic Engineering, U. of Santiago.
- 

## PROFESSIONAL COMMUNITY INVOLVEMENT

- Co-organiser of the WASSA-2017 shared task on emotion intensity (EmoInt).
  - Program committes: EMNLP 2017, WASSA 2017.
  - Journal Reviewer: Natural Language Engineering, IEEE Transactions on Knowledge and Data Engineering, Knowledge-based Systems, ACM Transactions on Intelligent Systems and Technology (TIST), IEEE Computational Intelligence Magazine.
- 

## SHORT COURSES

- Forecasting, taught by Bruce E. Hansen at Central Bank of Chile, October 29-31, 2013. <http://www.ssc.wisc.edu/~bhansen/cbc/>.
  - Machine Learning Summer School, February 16-25, 2015, Sydney, Australia. <http://rp-www.cs.usyd.edu.au/~mlss/>.
- 

## TECHNICAL SKILLS

**Programming Languages:** Java, R, Python, C,C++.

**Database Systems:** PostgreSQL, MySQL, MongoDB.

---

## LANGUAGES

**Spanish:** Native.

**English:** Fluent, *TOEFL IBT 103/120*.

**German:** Average, *Sprachdiplom Zweite Stufe*.

---

## REFERENCES

**Bernhard Pfahringer**

Full Professor, University of Auckland.

**Eibe Frank**

Associate Professor, University of Waikato.

**Saif Mohammad**

Senior Research Officer, National Research Council Canada (NRC).

Felipe José Bravo Márquez  
Hamilton, New Zealand May 3, 2017