

# Pietro Cruciata

## EDUCATION

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### Ph.D. in Mathematics

Jan 2019 - ongoing

*Innovation and Technology Management, Polytechnique Montréal*

Project: Developing innovation indicators leveraging Natural Language Processing methods and techniques

Supervisors: Catherine Beaudry and Andrea Lodi

### M.Sc. in Statistics (with scholarship)

Sep 2015 - Oct 2017

*Department of Statistical Sciences, University of Bologna*

Thesis: RANDOM FOREST MODEL FOR REPEAT BUYERS' PREDICTION

Supervisor: Marzia Freo

## AWARDS

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### Best Paper Award

2022

*4POINT0 International Conference 2022*

*NLP approaches to build innovation indicators* with Davide Pulizzotto and Catherine Beaudry

### Best Poster Award

2022

*4POINT0 International Conference 2022*

*NLP approaches to build innovation indicators* with Davide Pulizzotto and Catherine Beaudry

## PUBLICATIONS

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3. *First impressions on sustainable innovation matter: using nlp to evaluate the environmental readiness of companies by analyzing the homepages of their websites*, with Davide Pulizzotto, Catherine Beaudry. Technological Forecasting and Social Change, Under Review.
2. *Text mining methods for innovation studies: limits and future perspectives*, with Davide Pulizzotto and Catherine Beaudry. Conference proceeding[\[link\]](#)
1. *Investigating the Influence of Selected Linguistic Features on Authorship Attribution using German News Articles*, Sage, M., Cruciata, P., Abdo, R., Cheung, J. C. K., & Zhao, Y. F. (2020). In SwissText/KONVENS. Conference paper [\[link\]](#)

## CONFERENCES

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6. *Newspapers, Images and Income Support Policy*, with Chiara Perfetto and Giuliano Resce. CARMA 2023
5. *First impressions on sustainable innovation matter: using nlp to evaluate the environmental readiness of companies by analyzing the homepages of their websites*, with Davide Pulizzotto, Catherine Beaudry and Mikaël Héroux-Vaillancourt. DRUID 2023
4. *0-shot text classification for web-based environmental indicators: Pilot study on B-Corp data*, with Davide Pulizzotto and Catherine Beaudry. CARMA 2023
3. *Text mining methods for innovation studies: limits and future perspectives*, with Davide Pulizzotto and Catherine Beaudry. CARMA 2022
2. *NLP approaches to build innovation indicators*, with Davide Pulizzotto, and Catherine Beaudry. 4POINT0 International Conference 2022
1. *Investigating the Influence of Selected Linguistic Features on Authorship Attribution using German News Articles*, Sage, M., Cruciata, P., Abdo, R., Cheung, J. C. K., & Zhao, Y. F. (2020). In SwissText/KONVENS. [\[link\]](#)

## OTHERS

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### Co-organizer Pre-conference Workshop 4POINT0 [\[link\]](#)

May 2022

- The workshop was an introduction Natural Language Processing methods in social science using python;

## SKILLS & EXPERTISE

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### Languages:

- Italian - Native;
- English - Proficient;
- French - Intermediate;

### Programming:

- Python; R; SQL; NoSQL(MongoDB); Stata;
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