# Antonela Tommasel

PhD in Computer Sciences

7+ years of research experience.
9+ years of teaching experience.

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📍 Tandil, Argentina

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in /antonela-tommasel

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## SKILLS

### Programming Languages
- ☐ Java
- ☐ Python
- ☐ R
- ☐ Bash
- ☐ Kotlin

### Applied Maths
- ☐ Calculus
- ☐ Algebra
- ☐ Statistics Analysis

### Tools
- ☐ StanfordNLP – spaCy
- ☐ Gephi – NetworkX
- ☐ Twitter API
- ☐ Selenium
- ☐ MySQL – MongoDB
- ☐ IBM NLP
- ☐ sklearn

## INTERESTS

- ☐ Social Network Analysis
- ☐ Link Prediction
- ☐ Social Media
- ☐ Recommender Systems
- ☐ Machine Learning
- ☐ Text Mining
- ☐ Social Computing
- ☐ Natural Language Processing

## LANGUAGES

Spanish
*Native or Bilingual Proficiency*
English
*Native or Bilingual Proficiency*
French
*Professional Working Proficiency*
Italian
*Professional Working Proficiency*
Portuguese
*Limited Working Proficiency*
German
*Elementary Proficiency*

## WORK EXPERIENCE

### Assistant Researcher
ISISTAN, CONICET-UNICEN
*11/2019 – Present*                                      *Tandil, Argentina*
Research Interest:
*Recommendation of Trustworthy Users in Social Media based on Heterogeneous Information*
Recommender Systems – Social Media – Text Mining – Social Computing – Fake news

### Teacher Assistant
Universidad Nacional del Centro de la Provincia de Buenos Aires
*04/2010 – Present*                                      *Tandil, Argentina*
Undergraduate Courses:

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|---|---|
| ☐ Introduction to Computer Sciences | ☐ Computer Architecture |
| ☐ Relational and First-grade Logic | ☐ Software Development Methodologies |
| ☐ Analysis and Design of Algorithms | ☐ Introduction to Compilers Design |
| ☐ Object Oriented Programming | |

Undergraduate & Graduate Seminars:

- ☐ Web Mining    ☐ Advanced Java Programming Workshop    ☐ Recommender Systems

## EDUCATION

### PhD in Computer Sciences
Universidad Nacional del Centro de la Provincia de Buenos Aires
*07/2013 – 12/2017*                                      *Tandil, Argentina*
Thesis: *A Social-aware Online Short-text Feature Selection Technique for Social Media*
Courses:

| | |
|---|---|
| ☐ Parallel and Distributed Computing | ☐ Introduction to Evolutionary Computing |
| ☐ Strategies for Cross-Cutting Concern Separation | ☐ Tools for Internet Application Development: Electronic Commerce and Mobile Computing |
| ☐ Introduction to Planning Algorithms | |
| ☐ Architecture Driven Design Methodologies | ☐ Web Data Mining |

### Bachelor in Software Engineering
Universidad Nacional del Centro de la Provincia de Buenos Aires
*03/2008 – 11/2012*                                      *Cumulative GPA: 3.95/4.0*
Thesis: *Semantic Analysis of Social Annotations for Web Resource Classification*

## CERTIFICATES

- ☐ Statistics with Python Specialization (2021) – University of Michigan at Coursera
  Understanding and Visualizing Data with Python - Certificate ID: 79Y6H7RKE9YH
  Inferential Statistical Analysis with Python - Certificate ID: 4VPH2P6AE3BF

- ☐ Building Conversational Experiences with Dialog Flow (2020)– Google at Coursera - Certificate ID: 6ZHD4DN4AUFH

- ☐ Kotlin for Java Developers (2020) - JetBrains at Coursera - Certificate ID: EPEJMCAPL3VG

- ☐ Deep Learning Specialization (2020) – Coursera - Credential ID: SQAPE39Z4UKR
  Sequence Models - Credential ID: PK5AXCRYPKCM
  Convolutional Neural Networks - Credential ID: ASNMZ9NVPJL
  Structuring Machine Learning Projects - Credential ID: GA7MEJUTZH3Y
  Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Credential ID: 9NCTHKJ3PSMM
  Neural Networks and Deep Learning - Credential ID: YF7LPAKDTFC9

- ☐ Mining Massive Datasets (2014) – Coursera and Stanford University

- ☐ Machine Learning (2014) – Coursera and Stanford University

# SELECTED PUBLICATIONS

- "I Want to Break Free! Recommending Friends from Outside the Echo Chamber".
**Antonela Tommasel**, Juan Manuel Rodriguez, Daniela Godoy. 15th ACM Conference on Recommender Systems. Association for Computing Machinery, Amsterdam, Netherlands. DOI: 10.1145/3460231.3474270

- "Forecasting mental health and emotions based on social media expressions during the COVID-19 pandemic".
**Antonela Tommasel**, J. Andrés Diaz Pace, Juan Manuel Rodriguez, Daniela Godoy. Information Discovery and Delivery. Emerald. 2021. DOI: 10.1108/IDD-01-2021-0003.

- "Tracking the evolution of crisis processes and mental health on social media during the COVID-19 pandemic".
**Antonela Tommasel**, Daniela Godoy, Juan Manuel Rodriguez. Arxiv. 2020. DOI: arxiv.2011.11024.

- "Influence and Performance of User Similarity Metrics in Followee Prediction". Journal of Information Science.
**Antonela Tommasel**, Daniela Godoy. Journal of Information Science. 2020. SAGE. DOI: 10.1177/0165551520975359

- "An experimental study on feature engineering and learning approaches for aggression detection in social media".
**Antonela Tommasel**, Juan Manuel Rodriguez, Daniela Godoy. Inteligencia Artificial. Iberamia. 2019. DOI: 10.4114/intartif.vol22iss63pp81-100

- "Multi-view Community Detection with Heterogeneous Information from Social Media Data".
**Antonela Tommasel**, Daniela Godoy. Neurocomputing. Elsevier. 2018. DOI: 10.1016/j.neucom.2018.02.023

- "SMArtOp: A Java Library for Distributing High-dimensional Sparse-matrix Arithmetic Operations".
**Antonela Tommasel**, Daniela Godoy, Alejandro Zunino. Science of Computer Programming. Elsevier. 2017. DOI: 10.1016/j.scico.2017.06.005

- "A Social-aware Online Short-text Feature Selection Technique for Social Media".
**Antonela Tommasel**, Daniela Godoy. Information Fusion. Elsevier. 2016. DOI: 10.1016/j.inffus.2017.05.003

- "Learning and Adapting User Criteria for Recommending Followees in Social Networks".
**Antonela Tommasel**, Daniela Godoy. Journal of the Association for Information Science and Technology. Wiley. 2015. DOI: 10.1002/asi.23861

- "Personality-aware followee recommendation algorithms: An empirical analysis".
**Antonela Tommasel**, Alejandro Corbellini, Daniela Godoy, Silvia Schiaffino. (2016) Engineering Applications of Artificial Intelligence. Elsevier. DOI: 10.1016/j.engappai.2016.01.016.

- "Ciudadanos Digitales: explorando el rol de los medios sociales de comunicación en la e-Participación"
**Antonela Tommasel**, Daniela Godoy, J. Andrés Díaz Pace. (2019) In Proceedings of the Argentine Symposium on Technology and Society (STS'2019) in the 48th Argentine Meetings on Informatics and Operations Research (JAIIO'2019). Salta, Argentina.

- "Towards Anticipation of Architectural Smells using Link Prediction Techniques".
J. Andrés Diaz-Pace, **Antonela Tommasel**, Daniela Godoy. In Proceedings of the 18th IEEE International Working Conference on Source Code Analysis and Manipulation. 2018

- "Textual Aggression Detection through Deep Learning".
**Antonela Tommasel**, Juan Manuel Rodriguez, Daniela Godoy. In Proceedings of the 1stWorkshop on Trolling, Aggression and Cyberbullying at the 27th International Conference on Computational Linguistics. 2018

- "On the Evaluation of Community Detection Algorithms on Heterogeneous Social Media Data".
**Antonela Tommasel**, Daniela Godoy. (2018) In Linking and Mining Heterogeneous and Multi-view Data". Springer, Cham. DOI: 10.1007/978-3-030-01872-6_12

# SELECTED RESEARCH PROJECTS

- "Mitigating Misinformation in Recommender Systems".
PICT ANPCyT. Code: PICT- 2019-2019-02620. Principal Investigator: Dra. Antonela Tommasel

- *"Online Harm-Aware Recommender System"*.
Bilateral cooperation project CONICET – ROYAL SOCIETY 2019. Principal Investigators: Daniela Godoy – Arkaitz Zubiaga

- *"Hate speech is in the eye of the beholder: Exploring bias on hate perception"*.
Awarded by Facebook as part of the "Content Policy Research on Social Media Platforms request for proposals". Principal Investigator: Antonela Tommasel

- *"Digital Citizens: The Role of Social Media in e-Participation in Argentina"*.
UNICEN University. Code: 03-JOVIN-29C. Principal Investigator: Antonela Tommasel

- *"Faking it! A fake news multi-sourced dataset powered by Social Media"*.
Awarded by Facebook as part of the "The Online Safety Benchmark request for proposals". Principal Investigator: Daniela Godoy. Co- Principal Investigator: Antonela Tommasel

# SELECTED ADVISORY ACTIVITIES

- *"Technical Debt: development of a tool to detect/identify self-admitted debt".*
Master Thesis. 2020-2021. Università degli Studi di Milano-Bicocca, Italy.

- *"Detecting, analyzing and predicting urban mobility patterns"*
Undergraduate Final Project. 2020-2021. Universidad Nacional del Centro de la Provincia de Buenos Aires, Argentina.

- *"Detecting, analyzing and characterizing echo chambers in social media"*
Undergraduate Final Project. 2020. Universidad Nacional del Centro de la Provincia de Buenos Aires, Argentina.