Mariano Maisonnave
Currículum Vitae

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Academic Formation

2021 **Ph.D. in Computer Science**, *Instituto de Ciencias e Ingeniería de la Computación (ICIC) - CONICET and Departamento de Ciencias e Ingeniería de la Computación (DCIC) - UNS*, Bahía Blanca, Argentina.
<u>Research Areas</u>: Natural Language Processing, Causal Inference, Bayesian Networks, Econometrics, Data Science and Machine Learning.
<u>Advisor</u>: Ana G. Maguitman, Ph.D. <u>Co-advisor</u>: Fernando A. Tohmé, Ph.D.
<u>Thesis dissertation date</u>: Friday 22nd of October 2021

2016 **Computer Systems Engineering**, *Departamento de Ciencias e Ingeniería de la Computación - UNS*, Bahía Blanca, Argentina.
GPA 8.58 (out of 10).

Teaching and Academic Background

2021-Present **Position as Head of T.As.**, *discipline: programming*, course: **Introduction to Object-Oriented Programming**, Universidad Nacional del Sur, Bahía Blanca, Argentina.

2017-Present **Position as T.A. Category "A"**, *discipline: Systems*, course: **Embedded Systems**, Universidad Nacional del Sur, Bahía Blanca, Argentina.

2020 **Contract as T.A. Category "A"**, discipline: Systems, course: **Computer Organization**, Universidad Nacional del Sur, Bahía Blanca, Argentina.

2020 **Contract as a Professor**, *for the leveling course "**Analysis and problem solving (ACP)**"*, Universidad Nacional del Sur, Bahía Blanca, Argentina.

2019 **Contract as Head of T.As.**, discipline: programming, course: **Introduction to Object-Oriented Programming**, Universidad Nacional del Sur, Bahía Blanca, Argentina.

2015-2019 **Position as T.A. Category "B"**, discipline: programming, course: **Introduction to Object-Oriented Programming**.
Universidad Nacional del Sur, Bahía Blanca, Argentina

2018 **Contract as a T.A. Category "A"**, *for the leveling course "**Analysis and problem solving**"*, Universidad Nacional del Sur, Bahía Blanca, Argentina.

2017 **Contract as a T.A. Category "A"**, *for the leveling course "**Analysis and problem solving**"*, Universidad Nacional del Sur, Bahía Blanca, Argentina.

2015-2016 **Contract as T.A. Category "B"**, discipline: Theory of computation, course: **Formal languages and Automata Theory**, Universidad Nacional del Sur, Bahía Blanca, Argentina.

Recognitions and Awards

2020 **Google Latin America Research Awards (LARA)**, *Project name: "Learning Causal Models from Digital Media"*, <u>Advsior</u>: Ana G. Maguitman, Ph.D. <u>Co-advisor</u>: Fernando A. Tohmé, Ph.D.
(*Award granted as an extension for the proposal presented in 2019*).

2019 **Google Latin America Research Awards (LARA)**, *Project name: "Learning Causal Models from Digital Media"*, <u>Advsior</u>: Ana G. Maguitman, Ph.D. <u>Co-advisor</u>: Fernando A. Tohmé, Ph.D.

2019 **Recipient of the Emerging Leaders in the Americas Program (ELAP) Scholarship**, *Research stay for a term of four months at Dalhousie University, Halifax, Canada*, <u>supervisor</u>: Evangelos E. Milios, Ph.D.

2019 **Doctoral Scholarship**, *Granted by the Argentinian National Scientific and Technical Research Council (CONICET)*, full Scholarship to pursue a doctorate in Computer Science with a duration of five years. From April 2017 to April 2022, <u>Advsior</u>: Ana G. Maguitman, Ph.D. <u>Co-advisor</u>: Fernando A. Tohmé, Ph.D.

2015-2017 **Recipient of the "Encouragement of Scientific Vocations" Scholarship**, *granted by the National Interuniversity Council (CIN)*, Argentina.
<u>Research Title</u>: Adaptive learning Applied to Contextualized Information Retrieval.
<u>advisor</u>: Ana G. Maguitman, Ph.D

University Service

2015-Present **University Tutor**, *working for the Departamento de Ciencias e Ingeniería de la Computación*, Universidad Nacional del Sur.

2021 **Tutorial Actions Coordinator**, *working for the Departamento de Ciencias e Ingeniería de la Computación articulating with the Academic General Secretariat*, Universidad Nacional del Sur.

2020-2021 **PhD Student Representative at the Directive Commission of the Institute of Computer Science and Engineering**, National Scientific and Technical Research Council (ICIC-CONICET).

2016 **Treasurer of the Computer Student Center**, Universidad Nacional del Sur.

2015 **Student Representative at the Departmental Council**, *Departamento de Ciencias e Ingeniería de la Computación*, Universidad Nacional del Sur.

2015 **Member at the Academic Affairs Commission**, *Departamento de Ciencias e Ingeniería de la Computación*, Universidad Nacional del Sur.

2015 **Vice President of the Computer Student Center**, Universidad Nacional del Sur.

Publications

2021 Maisonnave, M., Delbianco, F., Tohmé, F. and Maguitman, A., 2021. *Assessing the behavior and performance of a supervised term-weighting technique for topic-based retrieval.* Information Processing & Management, 58(3), p.102483.

2020 Maisonnave, M., Delbianco, F., Tohmé, F., Maguitman, A. and Milios, E., 2020. *Improving Event Detection using Contextual Word and Sentence Embeddings.* arXiv preprint arXiv:2007.01379.
(*under review*)

2019 Maisonnave, M., Delbianco, F., Tohmé, F.A. and Maguitman, A.G., 2019. *A Flexible Supervised Term-Weighting Technique and its Application to Variable Extraction and Information Retrieval.* Inteligencia Artificial, 22(63), pp.61-80.

Presentations and communications at conferences

2020 Maisonnave, M., Delbianco, F., Tohmé, F., Maguitman, A.G. and Milios, E.E., 2020, September, *Assessing Causality Structures learned from Digital Text Media*, In Proceedings of the ACM Symposium on Document Engineering 2020 (pp. 1-4).

2019 Maisonnave, M., 2019, June, *Detección de Textos Similares a través de una Técnica de Agrupamiento Basada en Densidad*, Comunicación en XV Congreso Dr. Antonio Monteiro.

2018 Maisonnave, M., Delbianco, F., Tohmé, F.A. and Maguitman, A.G., 2018, November, *A Supervised Term-Weighting Method and its Application to Variable Extraction from Digital Media*, In XIX Simposio Argentino de Inteligencia Artificial (ASAI)-JAIIO 47.

Participation in Research Projects

2019-Present **Recuperación de Información basada en Contextos Temáticos**, *PGI: 24/N051*, P.I.: Ana G. Maguitman. Granted by: Universidad Nacional del Sur.

2015-2019 **Combining Context-based Search and Argumentation for delivering information in E-Gov Infrastructures**, *PICT-2014-0624*, P.I.: Ana G. Maguitman. Granted by: Agencia Nacional de Promoción Científica y Tecnológica.

2015-2018 **Soporte Inteligente para Facilitar el Acceso a Recursos Digitales en Entornos Distribuidos**, *PGI: 24/N039*, P.I.: Ana G. Maguitman. Granted by: Universidad Nacional del Sur.

Attendance to Courses

2019 **School of Informatic Sciences (ECI)**, *Departamento de Computación de la Facultad de Ciencias Exactas y Naturales*, Universidad de Buenos Aires (UBA).
   - **Natural language processing with neural networks (15hs)**. Prof. Germán Kruszewski, Facebook AI, UK. Grade: 8
   - **Deep reinforcement learning** (15hs). Prof. Juan Gomez Romero, Universidad de Granada, Spain. Grade: 7
   - **Probabilistic classifiers in Machine Learning** (15hs). Prof. Daniel Ramos Castro, Universidad Autonoma de Madrid, Spain. Grade: 6

2019 **XV Dr. Antonio Monteiro Congress**, *Universidad Nacional del Sur*, Argentina.
   - **Probabilistic Models** (4hs). Prof. Pablo Martín Rodriguez, Universidade Federal de Pernambuco, Brazil.

2015 **School of Informatic Sciences (ECI)**, *Departamento de Computación de la Facultad de Ciencias Exactas y Naturales*, Universidad de Buenos Aires (Universidad Buenos Aires, Argentina).
   - **Protecting the Confidentiality and Integrity of Data on the Web** (15hs). Prof. Alejandro Russo, Chalmers University of Technology, Sweden. Grade: 10
   - **Computer Science and Privacy** (15hs). Prof. Frederic Prost, Université Grenoble Alpes, France.