

Diego Emilio Bustamante Henríquez

Contact: diegobustama@hotmail.com Website: diegoemilio.com GitHub: [DiegoEmilio01](https://github.com/DiegoEmilio01) DBLP: [359/3424](https://dblp.org/pid/359/3424)

Education

- 2024-2022 **Pontificia Universidad Católica de Chile**
Santiago, Chile **Master of Science in Engineering Sciences with specialization in Computer Science**
Thesis year. GPA: 4.0/4.0.
- 2023-2018 **Pontificia Universidad Católica de Chile**
Santiago, Chile **Major in Computer Science**
Senior year. GPA: 4.0/4.0. Ranking: 2nd of 343 students.
- 2022-2018 **Pontificia Universidad Católica de Chile**
Santiago, Chile **Bachelor in Engineering Sciences**
Graduated with honours in the first term of 2022. GPA: 4.0/4.0. Graduation ranking: 6th of 499 students.
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Academic honours

- 2023 **ANID - National Master Scholarship**
Santiago, Chile National Scholarship for Master students awarded by ANID, an agency of the Ministry of Science, Technology, Knowledge and Innovation of Chile. Selected the 23rd of only 250 scholars awarded by ANID nationwide per year.
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Publications

- M. Arenas, P. Barcelo, D. Bustamante, J. Caraball, and B. Subercaseaux. A symbolic language for interpreting decision trees, 2023. arXiv: [2310.11636](https://arxiv.org/abs/2310.11636) [cs.LO].
- J. P. Salazar-Fernandez, J. Munoz-Gama, J. Maldonado-Mahauad, D. Bustamante, and M. Sepúlveda. Backpack process model (BPPM): a process mining approach for curricular analytics. *Applied Sciences*, 11(9):4265, 2021. ISSN: 2076-3417. DOI: [10.3390/app11094265](https://doi.org/10.3390/app11094265).
- J. Munoz-Gama, J. Maldonado-Mahauad, J. P. Salazar-Fernandez, D. Bustamante, and M. Sepúlveda. Backpack process model (BPPM): curricular analytics through process mining. In *LALA2020: III Conferencia Latinoamericana de Analíticas de Aprendizaje*, Cuenca, Ecuador, 2020.
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Work experience

- 2024-2023 **National Institute of Informatics - Intern (3 Months)**
Tokyo, Japan Researcher at Hideaki Takeda's Laboratory. Applied Natural Language Processing techniques to SPARQL query generation for Knowledge Graph Question Answering.
- 2023 **Millennium Institute Foundational Research on Data - Intern (2 Months)**
Santiago, Chile Developer at *MillenniumDB*, a Graph Database System. Worked on the SPARQL implementation as a new query language.
- 2022-2021 **Pontificia Universidad Católica de Chile - Advanced teacher assistant (3 Semesters)**
Santiago, Chile Gave lectures and graded tests at: Logic for Computer Science; Formal Languages and Automata Theory; and Digital Computing: Science and Technology of the Digital World.
- 2022-2018 **Lazos S.A. - Independent service provider (Sporadic)**
Santiago, Chile Did maintenance activities at the company servers located in Santiago.
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Skills

- Languages: Native: spanish. Advanced: english (FCE level B2). Basic: japanese & mapudungún.
- Programming Languages: Advanced: Python, C, C++ & R. Basic: JavaScript, Dart, Ruby & PHP.
- Computer skills: Advanced: L^AT_EX, GitHub, HTML, SQL, SPARQL, PostgreSQL & Office. Basic: IBM Quantum, PyTorch, Clingo, Flutter, Rails, MongoDB, koa, WolframAlpha, SEO, Heroku & namecheap.
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Extracurricular activities

- 2021-2018 **PUC - CPU**
General Coordinator, General Vice Coordinator and Technician
Non-profit social student initiative whose mission is to recondition computers to reduce electronic waste and donate them in places with low digital penetration to combat the Chilean digital divide.