

# Diego Emilio Bustamante Henríquez

Contact: [diegobustama@hotmail.com](mailto:diegobustama@hotmail.com) Webpage: [diegoemilio.com](http://diegoemilio.com) GitHub: [DiegoEmilio01](https://github.com/DiegoEmilio01)

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## Education

- 2023-2022 **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: 2<sup>nd</sup> 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: 6<sup>th</sup> 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 23<sup>rd</sup> of only 250 scholars awarded by ANID nationwide per year.*
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## Publications

- 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

- 2023 **Millennium Institute Foundational Research on Data - Intern**  
*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**  
*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**  
*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<sup>A</sup>T<sub>E</sub>X, 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

- 2022 **PUC - Computer Science Department - ACM Student Chapter**  
**Academic student representative of the Computer Science Major**  
*Student representation: raise the opinion of the student body to the faculty council, help students with curricular issues and organize events for the community.*
- 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.*