

# PABLO BAEZ BENAVIDES, PHD



## EDUCATION

Present  
|  
Apr. 2021

### Postdoctoral Researcher

University of Chile

📍 Santiago, Chile

- Fondecyt postdoctoral research grant: Linguistic characterization of the Chilean clinical text: towards an automatic extraction of information

Jan. 2018  
|  
Mar. 2013

### Ph.D. in Biomedical Sciences

University of Chile

📍 Santiago, Chile

- Thesis: Genetic linkage and association analysis to identify genetic risk markers of cholelithiasis and gallbladder cancer in Chile.

Jun. 2013  
|  
Apr. 2011

### M.S. in Biological Sciences, mention in Genetics

University of Chile

📍 Santiago, Chile

- Thesis: Role of the TRPM4 channel in the development of prostate cancer in a transgenic murine model.

May. 2009  
|  
Jan. 2003

### B.S. Microbiology and Bioanalysis

University of Antioquia

📍 Medellín, Colombia



## RESEARCH EXPERIENCE

Jul. 2021  
|  
Jan. 2021

### Researcher

Center for Mathematical Modeling, University of Chile

📍 Santiago, Chile

- Named entity recognition of tumor morphology and topography from surgical pathology reports.
- PI: Jocelyn Dunstan

Mar. 2021  
|  
Jan. 2020

### Researcher

Center for Medical Informatics and Telemedicine, University of Chile

📍 Santiago, Chile

- Automatic analysis of clinical narratives produced in Chile using neural networks.
- PI: Jocelyn Dunstan

Dec. 2020  
|  
Dec. 2019

### Researcher

Center for Medical Informatics and Telemedicine, University of Chile

📍 Santiago, Chile

- FONDEF IDeA I+D 2019 (2019-2021): "Deep-Pathology: Distributed TelePathology Platform Based on Blockchain and Collaborative Diagnosis Supported by Deep Learning".
- PI: Steffen Härtel Gründler



📄 [Download a PDF of this CV](#)

## CONTACT

✉ [pablofbaez@gmail.com](mailto:pablofbaez@gmail.com)

🐦 [pablofbaez](https://twitter.com/pablofbaez)

🌐 [github.com/pablofbaez](https://github.com/pablofbaez)

🔗 [pablofbaez.github.io](https://pablofbaez.github.io)

## LANGUAGE SKILLS

R/RStudio	
Git/Github	
Bash	
LaTeX	
Docker	
Python	
SQL	

Made with the R package [pagedown](#).

The source code is available at  
[github.com/pablofbaez/cv](https://github.com/pablofbaez/cv).

Last updated on 2023-10-13.

- Dec 2019  
|  
Sep. 2018
- **Postdoctoral Researcher**  
Center for Medical Informatics and Telemedicine, University of Chile  
📍 Santiago, Chile
- Systematic analysis of family history in free text of electronic medical records.
- Apr. 2018  
|  
Dec. 2017
- **PhD Candidate**  
Foundation for Advanced Biomedical Studies (FEBA), Faculty of Medicine, University of Chile  
📍 Santiago, Chile
- Analysis of germline and somatic genetic variants in patients with gallbladder cancer.
- Jan. 2018  
|  
Aug. 2014
- **PhD Student - Candidate**  
Cancer Genomics Laboratory, Faculty of Medicine, University of Chile  
📍 Santiago, Chile
- Statistical analysis of socio-demographic information
  - Genetic linkage analysis in families with multiple gallbladder cancer patients
  - Fine mapping and genome wide association analysis in a case-control study
- Feb. 2016  
|  
Aug. 2015
- **Graduate Student Fellow**  
Institute of Medical Biometry and Informatics (IMBI), University Hospital Heidelberg  
📍 Heidelberg, Germany
- Trained in specialized bioinformatics tools (R, PLINK and Mendel) to analyze genetic data
  - Attended the EMBL Conference: Cancer Genomics
  - Attended scientific talks organized by the University of Heidelberg and the German Center for Oncological Research (dkfz)
- Jun. 2013  
|  
Mar. 2012
- **Master's student**  
Laboratory of Molecular Cancer Pathology, Faculty of Medicine, University of Chile  
📍 Santiago, Chile
- Histopathological analysis of prostate, lymph nodes and lung sections of a murine model of prostate cancer (TRAMP mice)
  - Quantification of mRNA using real-time RT-PCR on TRAMP mice prostates



## SERVICE

- Dec. 2021  
|  
Nov. 2019
- **Diagnosis Foundation**  
Advisory member of the [Diagnosis Foundation](#)  
📍 Santiago, Chile
- Support the diagnosis and research of unknown diseases
  - Promote the knowledge generation through ethical and collaborative scientific research



## TEACHING EXPERIENCE

Present  
|  
Sep. 2023

### Undergraduate Teaching - Coordinating Professor

School of Medical Technology, Universidad del Desarrollo

📍 Santiago, Chile

- CB. Medical Informatics
- Course of the formative area of the Clinical Bioanalysis, Hematology and Blood Bank specialty, with 68 academic hours taught in the eighth semester of the Study Plan.

Present  
|  
Sep. 2023

### Undergraduate Methodological Advisor

School of Medical Technology, Universidad del Desarrollo

📍 Santiago, Chile

- Research Seminar

Present  
|  
Aug. 2020

### Graduate Teaching - Coordinating Professor

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- CA. Bioinformatics I and II

Present  
|  
Aug. 2021

### Undergraduate Teaching - Coordinating Professor

School of Medical Technology, Universidad del Desarrollo

📍 Santiago, Chile

- CB. Bioinformatics in Molecular Diagnostics
- Course of the formative area of the Morphophysiopathology and Cytodiagnosis specialty, with 102 academic hours taught in the eighth semester of the Study Plan

Jun. 2022  
|  
Jul. 2021

### Master Thesis Supervisor

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- Automatic Staging of Distant Metastases in Imaging Reports Using Natural Language Processing
- Ricardo Ahumada's Master Thesis Supervisor together with Jocelyn Dunstan PhD

Apr. 2022  
|  
Jul. 2021

### Master Thesis Examiner

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- Automatic transcription and extraction of key information from Spanish-language clinical audios
- Maicol Fernandez's Master Thesis Examiner

Jun. 2021

### Graduate Teaching - Guest Professor

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- CA. Statistical Analysis Methods II
- Language Resources Creation for NLP

Jul. 2020  
|  
May. 2020

### Graduate Teaching - Guest Professor

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- CB. Biostatistics I and II

I really enjoy teaching and sharing my experiences in health data science.

Dec. 2020   Mar. 2020	<b>Undergraduate Student Supervisor</b> Faculty of Medicine, University of Chile <ul style="list-style-type: none"> <li>• Research Unit I and II</li> <li>• 40 hour tutoring of second-year medical students</li> <li>• Guidance on the construction and execution of a short research project</li> </ul>	📍 Santiago, Chile
Oct. 2018	<b>Graduate Teaching - Guest Professor</b> International Master in Medical Informatics, University of Chile <ul style="list-style-type: none"> <li>• CA. Biomedicine II</li> <li>• Genetic epidemiology studies in cancer</li> </ul>	📍 Santiago, Chile
Oct. 2018   Aug. 2018	<b>Undergraduate Teaching - Guest Professor</b> School of Medical Technology, Universidad del Desarrollo <ul style="list-style-type: none"> <li>• CB. Scientific Bases of Medical Technology</li> </ul>	📍 Santiago, Chile
Sep. 2017	<b>Undergraduate Teaching - Guest Professor</b> School of Medical Technology, Universidad Mayor <ul style="list-style-type: none"> <li>• CB. Applied Biotechnology</li> </ul>	📍 Santiago, Chile
Jan. 2017   Mar. 2016	<b>Undergraduate Student Supervisor</b> Faculty of Medicine, University of Chile <ul style="list-style-type: none"> <li>• Research Unit I and II</li> <li>• 40 hour tutoring of second-year medical students</li> <li>• Guidance on the construction and execution of a short research project</li> </ul>	📍 Santiago, Chile
May. 2015	<b>Undergraduate Teaching - Auxiliary Guest Professor</b> School of Medical Technology, ICBM, University of Chile <ul style="list-style-type: none"> <li>• Seminars on the application of Molecular Biology</li> </ul>	📍 Santiago, Chile



## PUBLICATIONS

2023	<b>E-Learning Module for Cytopathology Education Based on Virtual Microscopy</b> Journal of the American Society of Cytopathology <ul style="list-style-type: none"> <li>• Cubillos, L., Díaz, E., <b>Báez, P.</b>, Gutiérrez, L., Molina C., Härtel, S.</li> <li>• (in press)</li> </ul>	📍 Santiago, Chile
2023	<b>Amerindian Ancestry Proportion as a Risk Factor for Inflammatory Bowel Diseases: Results from a Latin American Andean Cohort</b> Frontiers in Medicine <ul style="list-style-type: none"> <li>• Pérez-Jeldres, T., Magne, F., Ascui, G., Alvares D., Orellana, M., Álvarez-Lobos, M., Hernández-Rocha, C., Azócar, L., Aguilar, N., Espino, A., Estela, R., Escobar, S., Zazueta, A., <b>Baez, P.</b>, Silva, V., De La Vega, A., Arriagada, E., Pavez-Ovalle, C., Diaz-Asencio, A., Travisany, D., ... Bustamante, M.L.</li> <li>• (in press)</li> </ul>	📍 Santiago, Chile

Soon you will also find some notes about my work, talks and side projects in my [blog](#).








- 2023 • **Genotype Prevalence of Lactose Deficiency, Vitamin D Deficiency, and the Vitamin D Receptor in a Chilean Inflammatory Bowel Disease Cohort: Insights from an Observational Study**  
International Journal of Molecular Sciences 📍 Santiago, Chile  
• Pérez-Jeldres, T., Bustamante, M. L., Segovia-Melero, R., Aguilar, N., Magne, F., Ascui, G., Uribe, D., Azócar, L., Hernández-Rocha, C., Estela, R., Silva, V., De La Vega, A., Arriagada, E., Gonzalez, M., Onetto, G.-F., Escobar, S., **Baez, P.**, Zazueta, A., Pavez-Ovalle, C., ... Álvarez-Lobos, M.  
• DOI 10.3390/ijms241914866
- 2023 • **Genome sequencing reveals molecular subgroups in oral epithelial dysplasia**  
Brazilian Oral Research 📍 Santiago, Chile  
• Márquez A., Mujica I., Jordan N., **Báez P.**, Tarquinio S., Nunes J., Adorno D., Martínez B., Morales-Pison S., Fernandez-Ramires R.  
• DOI 10.1590/1807-3107bor-2023.vol37.0063
- 2022 • **Natural language processing for clinical text in Spanish: The case of waiting lists in Chile**  
Revista Médica Clínica Las Condes, 2022, vol. 33, no 6, p. 576-582. 📍 Santiago, Chile  
• **Báez, P.**, Arancibia, A. P., Chaparro, M. I., Bucarey, T., Núñez, F., & Dunstan, J.  
• DOI 10.1016/j.rmcl.2022.10.002
- 2022 • **Ethnicity influences phenotype and clinical outcomes: Comparing a South American with a North American inflammatory bowel disease cohort**  
Medicine, September 09, 2022 - Volume 101 - Issue 36 - p e30216 📍 Santiago, Chile  
• Pérez-Jeldres T, Pizarro B, Ascui G, Orellana M, Cerda-Villablanca M, Alvares D, De La Vega A, Cannistra M, Cornejo B, **Báez P.**, Silva V, Arriagada E, Rivera-Nieves J, Estela R, Hernández-Rocha C, Álvarez- Lobos M, Tobar F.  
• DOI 10.1097/MD.00000000000030216
- 2022 • **Cáncer de vesícula en colecistectomías de la región de Tarapacá. Análisis según pertenencia étnica**  
Revista Médica de Chile, 150(9). 📍 Santiago, Chile  
• Fonseca C, M., García R, J., Csendes J, A., Calcagno Z, S., Ibaceta O, D., **Báez B, P.**, & Marcelain C, K.  
• DOI 10.4067/S0034-98872022000901131
- 2022 • **Automatic support system for tumor coding in pathology reports in Spanish**  
Preprint available at SSRN 3982259 📍 Santiago, Chile  
• Villena, F., **Báez, P.**, Peñafiel, S., Rojas, M. & Dunstan, J.  
• DOI 10.2139/ssrn.3982259

- 2022 • **Automatic Extraction of Nested Entities in Clinical Referrals in Spanish**  
ACM Transactions on Computing for Healthcare (HEALTH), 2022, vol. 3, no 3, p. 1-22.  
📍 Santiago, Chile
- Báez, P., Bravo-Marquez, F., Dunstan, J., Rojas, M. & Villena, F.
  - DOI 10.1145/3498324
- 2021 • **Construcción de recursos de texto para la identificación automática de información clínica en narrativas no estructuradas**  
Revista Médica de Chile, 149(7).  
📍 Santiago, Chile
- Báez, P., Villena, F., Zúñiga K., Jones N., Fernández G., Durán, M. & Dunstan, J.
  - DOI 10.4067/s0034-98872021000701014
- 2020 • **Prevalencia de colecistolitiasis y cáncer de vesícula en una población rural Aymara de Chile**  
Revista Médica de Chile, 148(10).  
📍 Santiago, Chile
- Fonseca C, M., Baéz B, P., Csendes J, A., Calcagno Z, S., Marcelain C, K., Vargas M, P., García R, J., & Barlaro F, T.
  - DOI 10.4067/S0034-98872020001001398
- 2020 • **The Chilean Waiting List Corpus: a new resource for Clinical Named Entity Recognition**  
Proceedings of the 3rd Clinical Natural Language Processing Workshop (pp. 291-300)  
📍 Santiago, Chile
- Báez, P., Villena, F., Rojas, M., Durán, M., & Dunstan, J.
  - Best Paper Session at the 3rd Clinical NLP Workshop - EMNLP Conference 2020
  - DOI 10.18653/v1/2020.clinicalnlp-1.32
- 2020 • **ABCB1/4 Gallbladder Cancer Risk Variants Identified in India Also Show Strong Effects in Chileans**  
Cancer Epidemiol. 2020 Apr;65:101643.  
📍 Santiago, Chile
- Boekstegers F., Marcelain K., Barahona C., Báez P., Müller B., et al.
  - DOI 10.1016/j.canep.2019.101643
- 2018 • **TRPM4 regulates Akt/GSK3-β activity and enhances β-catenin signaling and cell proliferation in prostate cancer cells**  
Mol Oncol. 2018 Feb; 12(2):151-165.  
📍 Santiago, Chile
- Sagredo, A. I., Sagredo, E. A., Cappelli, C., Báez, P., Rodrigo, A. M., et al.
  - DOI 10.1002/1878-0261.12100

- 2017 • **Subtypes of Native American ancestry and leading causes of death: Mapuche ancestry-specific associations with gallbladder cancer risk in Chile**  
 PLoS Genet 13(5): e1006756.  Santiago, Chile  
 • Lorenzo Bermejo J, Boekstegers F, González Silos R, Marcelain K, Báez P., et al.  
 • DOI [10.1371/journal.pgen.1006756](https://doi.org/10.1371/journal.pgen.1006756)
- 2014 • **Mast Cell Infiltration and Kit and Protease Expression During Progression of a Transgenic Prostate Cancer Murine Model (TRAMP)**  
 Journal of Comparative Pathology, 150(1), 88.  Santiago, Chile  
 • González, C., Armisen, R., Stutzin, A., Baez, P., Landerer, E., Paredes, R., Contreras, I., Muñoz, C.
- 2012 • **Actualización en cáncer de próstata: generalidades y diagnóstico**  
 Medicina & Laboratorio, 18, 7-8.  Santiago, Chile  
 • Báez, P., Armisen Yañez, R.
- 2010 • **Colonización por Staphylococcus aureus resistente a meticilina en las manos de individuos de la comunidad**  
 Iatreia, 23(1), 5-9.  Medellín, Colombia  
 • Báez, P., Zapata Tamayo, M., Ramírez Pérez, A., Rúa Giraldo, A., & Jiménez Quiceno, J.



## SCHOLARSHIPS & AWARDS

- Apr. 2021 • **Fondecyt Postdoctoral Research Grant**  
 National Agency for Research and Development - ANID  Santiago, Chile
- Nov. 19 2020 • **Best Paper**  
 3rd Clinical Natural Language Processing Workshop. Paper title: The Chilean Waiting List Corpus: a new resource for Clinical Named Entity Recognition.  
 Clinical NLP Workshop, EMNLP
- Sep. 2018 • **Postdoctoral Bridge Scholarship**  
 Biomedical Neuroscience Institute (BNI), University of Chile  Santiago, Chile
- Jul. 2015 • **Scholarship for Internship Abroad**  
 MECESUP Program Uch1304, University of Chile  Santiago, Chile
- Mar. 2013 • **CONICYT National PhD Scholarship for Foreigners**  
 Ministry of Education, Government of Chile  Santiago, Chile
- Jun. 2013 • **Master's approval with maximum distinction**  
 Postgraduate School, University of Chile  Santiago, Chile
- 2008 • **Ten best results at national level according to academic program: ECAES test**  
 Ministry of Education, Republic of Colombia  Medellín, Colombia