





# 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](#)

 [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 2022-04-30.

- 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
- **Research Assistant**  
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
- **Graduate Research Assistant**  
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
- **Graduate Research Assistant**  
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

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

Dec. 2021  
|  
Aug. 2021

### Undergraduate Teaching - Coordinating Professor

School of Medical Technology, Universidad del Desarrollo

📍 Santiago, Chile

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

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

Dec. 2020  
|  
Mar. 2020

### Graduate Teaching - Coordinating Professor

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- CA. Bioinformatics I and II

Jul. 2020  
|  
May. 2020

### Graduate Teaching - Guest Professor

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- CB. Biostatistics I and II

Dec. 2020  
|  
Mar. 2020

### Undergraduate Student Supervisor

Faculty of Medicine, University of Chile

📍 Santiago, Chile

- Research Unit I and II
- 40 hour tutoring of second-year medical students
- Guidance on the construction and execution of a short research project

Oct. 2018

### Graduate Teaching - Guest Professor

International Master in Medical Informatics, University of Chile

📍 Santiago, Chile

- CA. Biomedicine II
- Genetic epidemiology studies in cancer

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







Oct. 2018   Aug. 2018	<b>Undergraduate Teaching - Guest Professor</b> School of Medical Technology, Universidad del Desarrollo • CB. Scientific Bases of Medical Technology	📍 Santiago, Chile
Sep. 2017	<b>Undergraduate Teaching - Guest Professor</b> School of Medical Technology, Universidad Mayor • CB. Applied Biotechnology	📍 Santiago, Chile
Jan. 2017   Mar. 2016	<b>Undergraduate Student Supervisor</b> Faculty of Medicine, University of Chile • Research Unit I and II • 40 hour tutoring of second-year medical students • Guidance on the construction and execution of a short research project	📍 Santiago, Chile
May. 2015	<b>Undergraduate Teaching - Auxiliary Guest Professor</b> School of Medical Technology, ICBM, University of Chile • Seminars on the application of Molecular Biology	📍 Santiago, Chile
Aug. 2009   Jun. 2009	<b>Adjunct Faculty</b> School of Microbiology, University of Antioquia • Anatomy and physiology III - Hematopathology – Hematology	📍 Medellín, Colombia
Nov. 2008   Jun. 2007	<b>Auxiliary Professor</b> School of Microbiology, University of Antioquia • Hematology	📍 Medellín, Colombia



## PUBLICATIONS

2022	<b>Automatic support system for tumor coding in pathology reports in Spanish</b> Artificial Intelligence In Medicine, AIIM-D-21-01799 • Villena, F., Báez, P., Peñafiel, S., Rojas, M. & Dunstan, J. DOI <a href="https://doi.org/10.2139/ssrn.3982259">10.2139/ssrn.3982259</a>	📍 Santiago, Chile
2022	<b>Automatic Extraction of Nested Entities in Clinical Referrals in Spanish</b> ACM Transactions on Computing for Healthcare (HEALTH), 2022, vol. 3, no 3, p. 1-22. • Báez, P., Bravo-Marquez, F., Dunstan, J., Rojas, M. & Villena, F. DOI <a href="https://doi.org/10.1145/3498324">10.1145/3498324</a>	📍 Santiago, Chile

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

- 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 colecistolitis 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- $\beta$  activity and enhances  $\beta$ -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

- 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

- 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