PABLO BAEZ BENAVIDES, PHD

🎓 EDUCATION

Postdoctoral Researcher

Present | Apr. 2021

University of Chile

📍 Santiago, Chile

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

Ph.D. in Biomedical Sciences

Jan. 2018 | Mar. 2013

University of Chile

📍 Santiago, Chile

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

M.S. in Biological Sciences, mention in Genetics

Jun. 2013 | Apr. 2011

University of Chile

📍 Santiago, Chile

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

B.S. Microbiology and Bioanalysis

May. 2009 | Jan. 2003

University of Antioquia

📍 Medellín, Colombia

💻 RESEARCH EXPERIENCE

Researcher

Jul. 2021 | Jan. 2021

Center for Mathematical Modeling, University of Chile

📍 Santiago, Chile

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

Researcher

Mar. 2021 | Jan. 2020

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

Researcher

Dec. 2020 | Dec. 2019

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

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CONTACT

✉ pablofbaez@gmail.com

🐦 pablofbaez

🐙 github.com/pablofbaez

🔗 pablofbaez.github.io

LANGUAGE SKILLS

Skill	
R/RStudio	
Git/Github	
Bash	
LaTeX	
Docker	
Python	
SQL	

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

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

Oct. 2018
|
Aug. 2018

Undergraduate Teaching - Guest Professor
School of Medical Technology, Universidad del Desarrollo

📍 Santiago, Chile

• CB. Scientific Bases of Medical Technology

Sep. 2017

Undergraduate Teaching - Guest Professor
School of Medical Technology, Universidad Mayor

📍 Santiago, Chile

• CB. Applied Biotechnology

Jan. 2017
|
Mar. 2016

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

May. 2015

Undergraduate Teaching - Auxiliary Guest Professor
School of Medical Technology, ICBM, University of Chile

📍 Santiago, Chile

• Seminars on the application of Molecular Biology

📄 PUBLICATIONS

2024

Automatic Detection of Distant Metastasis Mentions in Radiology Reports in Spanish
JCO Clinical Cancer Informatics

📍 Santiago, Chile

• Ahumada, R., Dunstan, J., Rojas, M., Peñafiel, S., Paredes, I., **Báez, P.**
• DOI 10.1200/CCI.23.00130

2023

E-Learning Module for Cytopathology Education Based on Virtual Microscopy
Journal of the American Society of Cytopathology

📍 Santiago, Chile

• Cubillos, L., Diaz, E., **Báez, P.**, Gutiérrez, L., Molina C., Härtel, S.
• DOI 10.1016/j.jasc.2023.10.002

Soon you will also find some notes about my work, talks and side projects in my blog.

2023 ● **Amerindian Ancestry Proportion as a Risk Factor for Inflammatory Bowel Diseases: Results from a Latin American Andean Cohort**

Frontiers in Medicine, 2023, vol. 10 ⓥ Santiago, Chile

- 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., **Baez, P.**, Silva, V., De La Vega, A., Arriagada, E., Pavez-Ovalle, C., Diaz-Asencio, A., Travisany, D., … Bustamante, M.L.

    DOI 10.3389/fmed.2023.1258395

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.rmclc.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.0000000000030216

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

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., Armisén, 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.**, Armisén 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