PABLO BAEZ BENAVIDES, PHD

🎓 EDUCATION

Postdoctoral Researcher
University of Chile
📍 Santiago, Chile

Present | Apr. 2021

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

Ph.D. in Biomedical Sciences
University of Chile
📍 Santiago, Chile

Jan. 2018 | Mar. 2013

- 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
University of Chile
📍 Santiago, Chile

Jun. 2013 | Apr. 2011

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

B.S. Microbiology and Bioanalysis
University of Antioquia
📍 Medellín, Colombia

May. 2009 | Jan. 2003

💻 RESEARCH EXPERIENCE

Researcher
Center for Mathematical Modeling, University of Chile
📍 Santiago, Chile

Jul. 2021 | Jan. 2021

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

Researcher
Center for Medical Informatics and Telemedicine, University of Chile
📍 Santiago, Chile

Mar. 2021 | Jan. 2020

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

Researcher
Center for Medical Informatics and Telemedicine, University of Chile
📍 Santiago, Chile

Dec. 2020 | Dec. 2019

- 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

CONTACT

- ✉ pablofbaez@gmail.com
- 🐦 pablofbaez
- 🐙 github.com/pablofbaez
- 🔗 pablofbaez.github.io

LANGUAGE SKILLS

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

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

Dec. 2022
|
Aug. 2022

Graduate Teaching - Coordinating Professor
International Master in Medical Informatics, University of Chile   📍 Santiago, Chile

• CA. Bioinformatics I and II

Dec. 2022
|
Aug. 2022

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 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

Dec. 2021
|
Aug. 2021

Undergraduate Teaching - Coordinating Professor
School of Medical Technology, Universidad del Desarrollo   📍 Santiago, Chile

• CB. Bioinformatics in Molecular Diagnostics

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
|
Aug. 2020

Graduate Teaching - Coordinating Professor
International Master in Medical Informatics, University of Chile   📍 Santiago, Chile

• CA. Bioinformatics I and II

Jul. 2020
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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
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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

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

Automatic support system for tumor coding in pathology reports in Spanish

Artificial Intelligence In Medicine, AIIM-D-21-01799

📍 Santiago, Chile

• Villena, F., **Báez, P.**, Peñafiel, S., Rojas, M. & Dunstan, J.

DOI | 10.2139/ssrn.3982259

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

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

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