CARLOS PUMA

₽ EDUCACIÓN

2022 • Universidad Nacional de San Agustin

Bachiller en Psicología

Arequipa, Perú

Tesis: Dyadic wavelet and its application in edge detection

2014 • University of Chinese Academy of Sciences

M.S. in Bioinformatics

Paeijing, China

Tesis: A multi-omics study for intra-individual divergence of the distributions between mRNA isoforms in mammals

2022 Universidad Nacional de San Agustin

Bachiller en Biología

Arequipa, Perú

Tesis: XD

RESEARCH EXPERIENCE

2011 | 2014

2025

Graduate Research Assistant

Beijing Institute of Genomics, Chinese Academy of Sciences

Peijing, China

- Performed computational biology research towards understanding regulation of alternative splicing in human and mouse transcriptome.
- Found EGFR pathway related mutations, aimed to understand the impacts of cancer mutations on EGFR signaling pathway.

2015 | 2016 Bioinformatican

My Health Gene Technology Co., Ltd.

Peijing, China

• Investigated how cancer cells spread to other parts of the body at the single cell level.

2016 | 2018 Visiting Scientist

University of Alabama at Birmingham

🗣 AL, USA

- · Investigated the role of mitochondria in development of cancer.
- Investigated the evolution of genome architecture and its role in important evolutionary events.
- Detected thrombotic thrombocytopenic purpura related mutations in mutiple patients' blood genome.



CONTACTO

- **y** Carlos_Puma
- □ cmaque4@gmail.com
- github/Carlos_Puma

IDIOMAS

Español: Nativo

English: Intermedio

Frances: Intermedio

▲ Descargar

This resume was made with the R package **pagedown**.

ast updated on 2022-01-23

PROFESSIONAL EXPERIENCE

Data Scientist, intern 2014

SupStat Inc.

Peiiing, China

- · Taught R language to beginners.
- · Wrote Shiny app demos.
- · Converted statistical tutorials from SPSS to R language.

2015 2016

Bioinformatician

My Health Gene Technology Co., Ltd.

Peijing, China

- · Analyzed whole-exome sequencing data.
- · Wrote analysis pipelines of ChIPseq, single cell DNA-seq and single cell RNA-seq.
- · Studied tumor metastasis and wrote research reports.
 - · Also did case studies to identify the genetic defect causing rare disease.

■ TEACHING EXPERIENCE

2014

Introduction to R Language for Beginners.

Instructor of R and Data Mining Training Courses at SupStat Inc.

Peijing, China

2016 2017 Computational Biology and Bioinformatics.

Teaching assistant of GBS CB2-201 courses at UAB

AL, USA



SELECTED PUBLICATIONS AND POSTERS.

2014

Genetic and epigenetic signals are found predictive to the distribution of intra-individual divergence of alternative splicing.

Poster for 2013 International Conference of Genomics

Qingdao, China

Yu L, Chen B, Zhang Z.

2016

ESCRT-0 complex modulates Rbf mutant cell survival by regulating Rhomboid endosomal trafficking and EGFR signaling.

J Cell Sci. 2016 May 15;129(10):2075-84.

Sheng Z, Yu L, Zhang T, Pei X, Li X, Zhang Z and Du W.

I'm an active participant in the local R community: I'm a coorganizer of R-Ladies São Paulo since 2018, and I have taught in several meetups and workshops. All the slides are available here: beatrizmilz.com/talk/

I'm also a co-organizer of satRday São Paulo and LatinR.

GRANTS

☆ LatinR 2019 - Travel and Conference.

☆ useR! 2019. Diversity Scholarship - Travel and Conference.

SOFTWARE

Package {dados} - Co-Author.

Package (mananciais) -Author, maintainer.

TEACHING

➡ tidyverse certified trainer by RStudio.

■ The Carpentries instructor.

PROGRAMMING SKILLS

R R

tidyverse