

# Camila Farias Amorim

POSTDOCTORAL RESEARCHER IN IMMUNOLOGY AND COMPUTATIONAL BIOLOGY

University of Pennsylvania, School of Veterinary Medicine

+1 215.594.9806 | ✉ [camilafarias112@gmail.com](mailto:camilafarias112@gmail.com) | 🏠 [camilafarias112.github.io](https://camilafarias112.github.io) | 📄 [camilafarias112](https://camilafarias112) | 🐦 [amorim\\_cfa](https://twitter.com/amorim_cfa)

## Address

Hill Pavilion room 346  
School of Veterinary Medicine  
380 S University Avenue  
Philadelphia, PA 19104

## Education and training

### Postdoctoral researcher

UNIVERSITY OF PENNSYLVANIA

### Ph.D fellow in Bioinformatics

UNIVERSITY OF PENNSYLVANIA

### Ph.D. in Immunology and Health Sciences

FEDERAL UNIVERSITY OF BAHIA

### Masters in Immunology and Health Sciences

FEDERAL UNIVERSITY OF BAHIA

### B.S. in Biomedical Sciences

FEDERAL UNIVERSITY OF BAHIA

Philadelphia, PA, USA

2018-current

Philadelphia, PA, USA

2017

Salvador, BA, Brazil

2014 - 2017

Salvador, BA, Brazil

2012 - 2013

Salvador, BA, Brazil

2008 - 2011

## Research experience

- **keywords:** immunology, genetics/omics, parasitism, microbiology, virology, cell biology, data science, next-generation sequencing, R, Python
- **Computational Biology/Bioinformatics/Data Science**
- **Biology, Immunology and Health Sciences**

## Teaching

### Teaching assistant

UNIVERSITY OF PENNSYLVANIA

Philadelphia, PA, USA

2018-current

*Next-generation sequencing and transcriptomics analysis using the R programming language*

*Description of the role:* Teaching - hands on - professionals in the biology field to analyze their own Next-generation sequencing datasets. Support in planning the study design and interpretation of the data from a biology background.

[DIYtranscriptomics.com](https://diytranscriptomics.com)

## Additional position

### Shared postdoctoral researcher at Center for Host-Microbial Interactions (CHMI) for sequencing and Omics analysis

UNIVERSITY OF PENNSYLVANIA

Philadelphia, PA, USA

2018-current

[CHMI - hostmicrobe.org](https://chmi-hostmicrobe.org)

## CodeOcean capsules

- **Variable gene expression and parasite load predict treatment outcome in cutaneous leishmaniasis.** Amorim CF, Novais FO, Nguyen B, Misic AM, Carvalho LP, Carvalho EM, Beiting DP, Scott P. DOI: [10.24433/CO.5903311.v1](https://doi.org/10.24433/CO.5903311.v1)

- **DIYtranscriptomics.** Alexander S. F. Berry, Camila Farias Amorim, Corbett T. Berry, Elizabeth D. English, Daniel P. Beiting. DOI: [10.24433/CO.8082955.v1](https://doi.org/10.24433/CO.8082955.v1)

## Publications (peer-reviewed)

### Google Scholar Profile

<b>Natural infection with <i>Giardia</i> is associated with altered community structure of the human and canine gut microbiome.</b>	bioRxiv
ASF BERRY, K JOHNSON, R MARTINS, M SULLIVAN, CF AMORIM, A PUTRE, A SCOTT, ...	2020
<b>Variable gene expression and parasite load predict treatment outcome in cutaneous leishmaniasis</b>	Science translational medicine
CF AMORIM, FO NOVAIS, BT NGUYEN, AM MISIC, LP CARVALHO, EM CARVALHO, ...	2019
<b>The role of NK cells in the control of viral infection in HTLV-1 carriers</b>	Journal of immunology research
CF AMORIM, NB CARVALHO, JA NETO, SB SANTOS, MFR GRASSI, LP CARVALHO, ...	2019
<b>Local and systemic production of proinflammatory chemokines in the pathogenesis of HAM/TSP</b>	Cellular immunology
M GUERRA, T LUNA, A SOUZA, C AMORIM, NB CARVALHO, L CARVALHO, ...	2018
<b>Inhibitory activity of pentacyano(isoniazid)ferrate(II), IQG-607, against promastigotes and amastigotes forms of <i>Leishmania braziliensis</i></b>	PloS one
CF AMORIM, L GALINA, NB CARVALHO, NDM SPEROTTO, K PISSINATE, ...	2017
<b>In vitro immunomodulatory activity of a transition-state analog inhibitor of human purine nucleoside phosphorylase in cutaneous leishmaniasis</b>	Journal of immunology research
NB CARVALHO, FV OLIVEIRA PRATES, RC SILVA, MEF DOURADO, CF AMORIM, ...	2017
<b>Age modifies the immunologic response and clinical presentation of American tegumentary leishmaniasis</b>	The American journal of tropical medicine and hygiene
AM CARVALHO, CF AMORIM, JLS BARBOSA, AS LAGO, EM CARVALHO	2015
<b>Functional activity of monocytes and macrophages in HTLV-1 infected subjects</b>	PLoS Negl Trop Dis
CF AMORIM, AS SOUZA, AG DINIZ, NB CARVALHO, SB SANTOS, EM CARVALHO	2014
<b>Impairment of humoral and cellular immune response to tetanus toxoid in HTLV-1 infected individuals</b>	Retrovirology
AS SOUZA, CF AMORIM, N CARVALHO, SB SANTOS, EM CARVALHO	2014

## Awards & Achievements

- 2017 Ph.D fellow scholarship award to develop a scientific research project abroad - by Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES, Brazil)

## Invited and selected talks

- *Parasite load and host cytotoxicity-related gene expression are potential biomarkers for treatment outcome.* American Society of Tropical Medicine and Hygiene (ASTMH) Meeting. Maryland, USA. November 23, 2019.
- *Predicting Treatment Failure in Cutaneous Leishmaniasis.* Tropical Medicine Research Center (TMRC) Meeting. Salvador, Bahia, Brazil. March 12, 2019.
- *Predicting Treatment Failure in Cutaneous Leishmaniasis.* 22 and 23th Annual Woods Hole Immunoparasitology Conference. Woods Hole, MA, USA, May 2018.
- *NK cells cytotoxicity is impaired in HAM/TSP patients.* XII International Symposium of HTLV in Brazil and IV Paulista Symposium of HTLV. São Paulo, Brazil, 2016.
- *The role of viral factors on monocytes/macrophages activation and function in HTLV-1 infection.* XXXIX Congress of the Brazilian Society of Immunology. São Paulo, Brazil, 2014.

## PrePrint Reviews

- *Links between environment, diet, and the hunter-gatherer microbiome.* 2018 **PREreview**

## Languages

- Portuguese (native)
- English
- Spanish