

Ana Alice Pimenta Pereira

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Last update: June,2026

EDUCATION

Cornell University

PhD Biomedical & Biological Sciences

GPA: 4.00/4.00

Ithaca, NY

August 2024 – Expected 2029

Federal University of Viçosa (UFV)

DVM Doctor of Veterinary Medicine

2nd out of 60 students, GPA: 87.5/100

Viçosa, Brazil

March 2019- July 2024

RESEARCH EXPERIENCE

Cornell University: Kroon Campos Lab

2025-Present

- Decoding how epitranscriptomic mRNA marks shape arbovirus replication and host-virus interactions across human and mosquito hosts.

Cornell University: Fowell Lab

Oct-Dec 2024

Rotation Student

- Investigated germinal center (GC) dynamics by tracking B cell subsets (Bmem, plasma cells, and long-lived plasma cells) to elucidate the temporal requirements for T follicular helper (Tfh) cell support.
- Demonstrated the utility of the S1PR2-iCRE x stop-floxed-tdTomato transgenic mouse model to track germinal center (GC) B cell output, enabling fluorescent labeling and precise monitoring of GC-derived cells' differentiation into long-lived plasma cells (LLPCs) and memory B cells (Bmem) at key temporal checkpoints.

Cornell University: Caddy Lab

Aug-Oct 2024

Rotation Student

- Conducted research on the Canine Distemper Virus to investigate immune responses, including antibody-dependent cellular cytotoxicity (ADCC), and identified strategies to address immunological gaps in canine health.
- Developed and optimized a novel protocol for purifying natural killer (NK) cells from canine whole blood, enhancing the study of canine immune cell functionality.

Cornell University: Caddy Lab

May-Aug 2023

Leadership Program

- First Brazilian selected to participate in the Leadership Program for Veterinary Students at Cornell University in the program's 30-year history.
- Awarded financial support from the Cornell Richard P. Riney Canine Health Center, recognizing a student with exceptional dedication and commitment to advancing research in canine health.

- Conducted research on Canine Parvovirus, uncovering evidence of both phagocytosis and antibody-mediated phagocytosis of the virus by canine macrophages—an important step toward advancing the understanding of the antibody response to CPV.

Universidade Federal de Viçosa: Viçosa Veterinary Virology Lab (LAVEV)

2023

Undergraduate Researcher – PIBIC CNPq

- Conducted serosurveillance research to evaluate the presence of Ilheus virus antibodies in equid populations in Viçosa, Brazil.
- Took on a leadership role by managing and delegating tasks to undergraduate team members, coordinating schedules, and overseeing the laboratory's organization and cleaning routines.
- Engaged with the rural population of Viçosa to raise awareness about active viral surveillance, fostering community outreach and promoting the importance of academia's role in public health.

Universidade Federal de Viçosa: Animal Virology Laboratory (LIVA)

2021-2022

Undergraduate researcher – PIBIC CNPq

- Awarded the CNPq Level A Scholarship; expressed recombinant Senecavirus A genes in *E. coli*.

Universidade Federal de Viçosa: Animal Virology Laboratory (LIVA)

2020- 2021

Undergraduate Researcher – voluntary PIVIC – CNPq

- Investigated Porcine Circovirus 3 (PCV3) in swine farms, identifying correlations with reproductive failures.

SESI CAT Maria José D'Almeida Mello

2016-2018

High School research investigation

- Led an award-winning project to design and develop photocatalytic paint for pollutant gas conversion using titanium dioxide.
- Created and applied experimental protocols using accessible materials, including PET bottles, lime, and water, to evaluate the photocatalytic paint's effectiveness in pollutant gas conversion.
- The project won awards at national and international science fairs, recognized for its innovative nature, scientific rigor, and excellence in presentations.

PUBLICATIONS

- **Publication, Pimenta-Pereira AA**, Lubinski B, Campos RK.O. Alphavirus nsP3 as a multifunctional orchestrator of virus-host interplay. *J Virol*0:e01779-25.<https://doi.org/10.1128/jvi.01779-25>
- **Publication**, Serena Teh, Lotta Henni Truyen, Sarah Woodyear, **Ana Alice Pimenta-Pereira**, Alexis AE Peprah, Ella Lanman, Thomas M Lonergan, Abigail Reid, Soon Hon Cheong and Sarah L Caddy. Quantifying maternal antibody transfer to colostrum and cord blood reveals virus-specific selectivity in dogs. *Frontiers in Immunology*, section Comparative Immunology. doi:10.3389/fimmu.2025.1753521.
- **Publication**, Pauvolid-Corrêa A, de Jesus LBG, Barbosa VAP, Oliveira YET, da Silva MAN, de Paula Rebello M, de Freitas GS, Bem GS, **Pimenta-Pereira AA**, Rabelo AGC, Gonçalves EVJD, Moreira MF, Morente BB, Tomich MS, Domingues LSS, Magalhães MML, Cavalheiro TCBS, do Lago EP, de Barros JJF, Barreto-Vieira DF. Isolation of Orthopoxvirus vaccinia during an outbreak of vesicular disease in dairy cattle from Viçosa, state of Minas Gerais, southeast Brazil. *Braz J Microbiol*. 2025

Dec;56(4):2619-2625. doi: 10.1007/s42770-025-01719-5. Epub 2025 Jul 31. PMID: 40745132; PMCID: PMC12660552.

- **Publication, Pereira, A.A.P.**; Duarte, A.A.; Ramos, A. P. C. “Produção de tinta à base de dióxido de titânio capaz de transformar gases poluentes em gases inofensivos no município de Pedro Leopoldo”, v. I, n. 26, jan/jul 2017: Faculdade ASA, 2017. Brumadinho, p.159 - 172, 2017.

ACADEMIC CONFERENCES

- **Poster Presentation, Pimenta-Pereira AA**; Woodyear SAK; Chandler TL; Weichert WS; Caddy S. Developing a canine antibody phagocytosis assay to study maternal antibodies specific for canine parvovirus. Presented at the Veterinary Scholar Symposium 2023. San Juan, Porto Rico.
- **Poster Presentation, Pimenta-Pereira AA**; Woodyear SAK; Chandler TL; Weichert WS; Caddy S. Production of canine parvovirus virus-like particles to study Fc-mediated effector functions of canine antibodies. 34th Brazilian Congress of Virology, 2023, Ouro Preto, Brazil.
- **Poster Presentation**, Jesus LBG, Morente BB, Souza IF, Oliveira GAS, Kaku GY, Bem GS, **Pereira AAP**, Freitas GS, Ferraz CM, Lima RAL, Moreira MF, Veloso ACV, Costa YV, Gonçalves EVJD, Teixeira CS, Silva YFRS, Pauvolid-Corrêa A. Investigation of west nile virus exposure in equids from Viçosa, state of Minas Gerais, Southeast Brazil. 34th Brazilian Congress of Virology, 2023, Ouro Preto, Brazil.
- **Publication & Presentation**, Toledo, L. T.; Lino, L. F. ; Gonzaga, N. F. ; Marks, F. S. ; Pereira, C. E. R. ; **Pereira, A. A. P.** ; DIAMANTINO, C. A. ; OLIVEIRA, L. G. ; S. JUNIOR, A. . “Virulence differences between Mycoplasma hyopneumoniae Brazilian strains at experimentally infected swines.” Presented by Leonardo Toledo at 26th INTERNATIONAL PIG VETERINARY SOCIETY CONGRESS - IPVS2022, 2022, Rio de Janeiro. Proceedings IPVS 2022, 2022. p. 366. Available in: https://drive.google.com/file/d/1Y4_OrtwBqG2N3XtwXZNnw0gD4hosWhUf/view?usp=sharing

TEACHING

Cornell University

BIOMS 4090/BIOMS 6090 – Combined Principles of Virology

Fall 2025

Universidade Federal de Viçosa

VET 140- Veterinary Microbiology

2022-2023

VET 340 -Bacterial Diseases

2023

VET 331- Veterinary Anesthesiology

2022

AWARDS AND RECOGNITIONS

Líder Estudante Finalist – (“the Brazilian Rhodes Scholarship”)

2025

Selected as a finalist (0.5% acceptance to this stage) for the 2025 Líderes Estudante Leaders Scholarship Program. The most competitive scholarship in the country.

Best poster presentation award

2023

Awarded in the "Veterinary Virology: Undergraduate" category at the 34th Brazilian Congress of Virology for the work titled “*Production of Canine Parvovirus Virus-Like Particles to Study Fc-Mediated Effector Functions of Canine Antibodies.*”

- Cornell Richard P. Riney Canine Health Center award** 2023
Received financial support for summer studies at Cornell University focused on advancing research in canine health.
- PIBIC/CNPq funding to do research** 2023
Awarded by the Brazilian government to conduct research on equine serosurveillance.
- PIBIC/CNPq funding to do research** 2021
Awarded by the Brazilian government to carry out research in animal virology.
- Technological Innovation, USP Innovation Agency** 2017
Awarded best project in technological innovation at the Brazilian Science and Engineering Fair (FEBRACE).
- Most Outstanding Exhibit in Materials Science, ASM Materials Education Foundation** 2017
Awarded for excellence in materials science at the Brazilian Science and Engineering Fair (FEBRACE).
- 2nd Place in Exact and Earth Sciences, FEBRACE** 2017
Awarded at the Brazilian Science and Engineering Fair (FEBRACE) for outstanding research in Exact and Earth Sciences.

DIVERSITY, INCLUSION & OUTREACH

- Brazil Conference** 2025-2026
Student Committee - Researchers Recognition Award
- The largest conference about Brazil. It takes place at Harvard and MIT and aims to create a global space to discuss the future of Brazil and its role in the world.
- 25th Cornell Biomedical & Biological Symposium** 2025-2026
Student Committee
- XXII Semana Acadêmica de Medicina Veterinária (Academic Week of Veterinary Medicine) – SAMEV 2020**
Marketing Director
- Managed the marketing schedule, promoted the event, and addressed inquiries from the public via email and social media platforms.
- Wildlife Study Group** 2019
President
- Facilitated a team of 12 individuals in organizing a study group focused on the care of wild animals, addressing a gap in the curriculum at the time, as the university had not yet offered a course on the subject.
- Wildlife Study Group** 2019
Public Affairs Director
- Organized, received, and presented speakers and other guests for weekly meetings.

WORK EXPERIENCE

Federal Laboratory for Agricultural and Livestock Defense (LFDA) MG - MAPA 2023
Animal Virology and Bacteriology Diagnostics Intern

- Supervised internship at government network laboratories, including those with biosafety levels NB2, NB3, and NB4, for agricultural and livestock defense within the Ministry of Agriculture, Livestock, and Supply.

CPT: VET Professional 2023
Marketing Intern

- Produced Veterinary content for the company's social media networks.
- Image editing, videos, writing posts and articles for social media.

Atlas Hospital Veterinário: Veterinary Hospital 2021
DVM Intern

- Intern in a Small Animal Hospital setting with a focus on Internal Medicine, Hospitalization, Surgery, and Small Animal Anesthesia.
- Handled medication for hospitalized animals and assisted in surgical procedures and patient care.
- Participated in company offered courses, presented seminars, and engaged in clinical case discussions related to dogs and cats care.

Universidade Federal de Viçosa: Família do Leite (Milk Family) 2021
Extension Project

- Herd Management: oversaw the general management of the herd, including calf management, medication administration, and vaccination.
- Routine Observation: observed the daily operations of various sectors related to animal health, reproduction, calf rearing, and nutrition.
- Technical Education: participated in directed studies and attended technical lectures on dairy herd handling, feeding, and health.