




PhD UNAB

PhD CONSERVATION MEDICINE

 <https://investigacion.unab.cl/doctorados-eng/conservation-medicine/>



Universidad
Andrés Bello®



APPLICATIONS FROM
**AUGUST 15TH
TO OCTOBER
12TH**

5
A

Accredited
years

Comisión Nacional
de Acreditación
CNA-Chile

For 5 years by the National
Accreditation Commission
(CNA) from June 26th 2019
to June 26th 2024

ADMISSION 2024



01

PRESENTATION

Conservation Medicine is an interdisciplinary scientific field dedicated to understanding, from a holistic view, health and conservation problems caused by the effects of global change variables and their interaction with the health of humans, animals, plants and the ecosystems that sustain them. Phenomena such as climate change, ecosystem degradation, biological invasions and pollution have vast economic, sociological, ecological and health effects. Conservation Medicine is the theoretical body that generates knowledge to propose solutions through the necessary approaches to face the problems described, promoting the biodiversity conservation and the protection of ecosystems that are essential for the health of all living beings on the planet.

02

PROGRAM ACCREDITATION

PhD Conservation Medicine accredited by CNA for 5 years from June 26th 2019 to June 26th 2024

03

GENERAL OBJECTIVE

Provide excellence in PhD training, which enables its graduates to understand, deepen and develop original and autonomous research, in relation to the interactions between the variables of global change, that is, environmental changes resulting from anthropogenic activities, in order to determine their impact on human health, animals, plants, and ecosystems, as well as the conservation of the living beings that inhabit them, communicating their results to the public.

04

SPECIFIC OBJECTIVES

- Provide tools for the understanding and generation of new knowledge in the study of the interactions between the variables of global change related to health and conservation problems.
- Promote the development of skills that allow generating research to determine the effect of environmental change on the health of humans, animals, plants and the ecosystems they share.
- Generate instances of academic dialogue to advance in the development of interdisciplinary proposals aimed at solving problems associated with Conservation Medicine.
- Promote spaces that allow to develop tools to communicate orally and in writing the results derived from their research to the specialized and non-specialized public.



05

GRADUATE PROFILE

The graduate of the PhD in Conservation Medicine program of Universidad Andrés Bello has a solid scientific background to generate new knowledge and communicate original and autonomous research on health and conservation problems that occur in the interaction between humans, animals, plants and the ecosystems that support them, in a context of global change.

It is capable of, from a holistic view, analyze, diagnose, predict and propose solutions to problems in the lines of One Health, Global Change or Biodiversity Conservation.

The learning results of the graduation profile are:

Demonstrate specialized and cutting-edge theoretical and practical knowledge in Conservation Medicine, which allows the development of original and autonomous research considering bioethical aspects.

Generate new knowledge in some of the research lines of the program: One Health, Global Change or Biodiversity Conservation, based on the analysis and diagnosis of the needs and problems identified in Conservation Medicine.

Communicate orally and in writing the results of scientific research to the specialized and non-specialized public, contributing to the solution of health and environmental problems.

06

LINES OF RESEARCH

ONE HEALTH

This line proposes a holistic view of health problems at the interface between humans, animals, plants and the environment that sustains them, recognizing that health and all organisms on the planet are closely linked and inter-dependent. Special emphasis is placed on determining how human activities give rise to changes that may affect disease epidemiology or impact public, domestic and wild animal health, and ecosystems. Through an integrative approach, One Health promotes a healthy future and sustainable development.

GLOBAL CHANGE

This line focuses on the study of the impacts of the Anthropocene on biological systems at any of its scales (from molecular to ecosystemic). Among the main drivers of environmental change on a global scale are biological invasions, land use change, pollution, overexploitation of resources and climate change. The understanding of the mechanisms and individual, additive or synergistic effects that the drivers of global change have on natural and urban systems, allow addressing these problems and proposing solutions to prevent, reduce or stop the degradation of ecosystems. Likewise, it addressed the sustainable development of wild, rural and urban lands in balance with the environment.

BIODIVERSITY CONSERVATION

This line addresses the science and practice of conserving the diversity of life, from genes, populations, species, communities to ecosystems. It involves the study of threats, as well as actions that seek the protection, restoration and management of biodiversity, including in situ and ex situ conservation approaches. Its purpose is to propose solutions to growing environmental problems considering the importance of biodiversity in the provision of ecosystem services necessary for human well-being.

07 PROGRAM DIRECTOR

Claudio Azat
MV, MSc, PhD (Universidad Andrés Bello/ Zoological Society of London).
claudio.azat@unab.cl

08 ACADEMIC FACULTY

Ruben Avendaño-Herrera
PhD in Biology specialized in Microbiology and Parasitology of Fish (Universidad Santiago de Compostela Spain). Line: One Health.

Claudio Azat
PhD in Conservation Medicine (Universidad Andrés Bello/ Zoological Society of London).
Lines: One Health and Biodiversity Conservation.

Cristian Bulboa
PhD in Science specialized in Botantics (Universidad de Sao Paulo, Brasil). Line: Biodiversity Conservation.

Mauricio Carter
PhD in Science specialized in Ecology and Evolutionary Biology (Universidad de Chile). Line: Global Change.

Gustavo Chiang
PhD in Environmental Sciences (Universidad de Concepción). Line: Global Change.

Loretto Contreras
PhD in Biological Sciences specialized in Molecular Genetics and Microbiology (Pontificia Universidad Católica de Chile). Line: Global Change.

Mauricio Coppo
PhD in Veterinary Virology and Avian Immunology (University of Melbourne). Line: One Health.

Pablo Cruces
Pediatric Intensivist Physician (Universidad del Desarrollo). Line: One Health.

Cristian Duarte
PhD in Science specialized in Systems and Ecology (Universidad Austral de Chile). Line: Global Change.

Nicolas Galarce
PhD in Agricultural and Veterinary Sciences (University of Chile). Line: One Health.

Gustavo Gatica
PhD in Engineering Sciences, mention in automation (University of Santiago de Chile).
Line: Global Change.

Carlos González
PhD in Pathology (University of Edinburgh, UK).
Line: One Health.

Christian Ibáñez
PhD in Sciences specialized in Ecology and Evolutionary Biology (Universidad de Chile).
Line: Biodiversity Conservation.

Gonzalo Medina
PhD in Wildlife Ecology (Lincoln University, New Zealand). Line: Biodiversity Conservation.

Edmundo Muñoz
PhD in Engineering (Universidad de La Frontera).
Line: Global Change.

Pablo Oyarzún
Doctor in Marine Biology (Austral University of Chile).
Line: Biodiversity Conservation.

Rodolfo Paredes
PhD in Biomedical Sciences (Universidad de Chile).
Line: One Health.

José Miguel Pulgar
PhD in Biological Sciences specialized in Ecology (Pontificia Universidad Católica de Chile).
Line: Global Change.

Verónica Quirici
PhD in Biological Sciences specialized in Ecology (Pontificia Universidad Católica de Chile).
Line: Biodiversity Conservation.

Gisela Stotz
PhD in Ecology (University of Alberta, Canada).
Line: Global Change.

Pamela Thomson
PhD in Biomedicine (Universitat Rovira i Virgili, Catalunya, Spain). Line: One Health.

09 COLLABORATING PROFESSORS

Aiko Adell
PhD in Comparative Pathology (University of California Davis, USA). Line: One Health.

Francisca Astorga
PhD in Conservation Medicine (Universidad Andrés Bello). Line: One Health.

Daniela Doussang
PhD in Veterinary Sciences (Universidad de Concepción). Line: Biodiversity Conservation.

Cayetano Espinosa
PhD in Conservation Medicine (Universidad Andrés Bello). Line: Biodiversity Conservation.

Juan Manuel Estrada
PhD in Biotechnology (Universidad Andrés Bello).
Line: Biodiversity Conservation.

Iván Franchi
PhD in Geography, Territorial Planning and Environmental Management (Universidad de Barcelona). Line: Global Change.

Elizabeth Garrido
PhD in Environmental Resource Science (Universidad de La Frontera). Line: Global Change.

Sebastián Klarián
PhD in Conservation Medicine (Universidad Andrés Bello). Line: Biodiversity Conservation.

Gabriel León
PhD in Biological Sciences, mention in Cellular and Molecular Biology (Pontificia Universidad Católica de Chile). Line: One Health.

Beatriz Mella-Lira
PhD in Urban Planning (University College London).
Line: Global Change.

M. Cecilia Pardo
PhD in Sciences, specialized in Ecology and Evolutionary Biology (Universidad de Chile).
Line: Biodiversity Conservation.

Daniel Pons
PhD in Mathematics (Imperial College London, University of London, UK). Line: Biodiversity Conservation.

Claudia Saavedra
Doctor in Biochemistry (University of Chile).
Line: One Health.

Alejandro Simeone
PhD in Natural Sciences (University of Kiel, Germany). Line: Biodiversity Conservation.

Juan Ugalde
PhD in Marine Biology (University of California San Diego, USA). Line: One Health.

Leonardo Vera
PhD in Environmental Resource Science (Universidad de La Frontera). Line: Global Change.

10 VISITING PROFESSORS

Karina Acevedo-Whitehouse
PhD in Molecular Ecology (University of Cambridge, UK). Universidad Autónoma de Querétaro, Mexico.

Pelayo Acevedo
PhD in Biology and Technology of Hunting Resources (Universidad de Castilla-La Mancha, Spain). Institute for Game and Wildlife Research (IREC), Spain.

Julio Benavides
PhD in Evolutive Biology and Ecology (Université de Montpellier, Francia). Institut de Recherche pour le Développement (IRD), France.

Andrew Cunningham
PhD in Wildlife Epidemiology (Royal Veterinary College, University of London, UK). Professor of Wildlife Epidemiology, Institute of Zoology, Zoological Society of London, UK.

Arno Gutleb
PhD in Environmental Science, Toxicology (Wageningen University, The Netherlands). Public Luxembourg Institute of Science and Technology (LIST), Luxembourg.

Javier Millán
PhD in Veterinary (Universidad de Zaragoza, Spain).

John Organ
PhD in Wildlife and Fisheries Biology (University of Massachusetts at Amherst, EEUU). US Geological Survey, EE.UU.

María Soledad Sepúlveda
PhD in Veterinary Sciences (University of Florida). Professor & Associate Head for Research, Department of Forestry & Natural Resources, Purdue University, West Lafayette, IN.

Paul Wagner
PhD in Biology (Virginia Tech University). Professor of Practice and Program Director, MPS in Climate Leadership, College of Natural Resources and Environment, Center for Leadership in Global Sustainability.

11 CURRICULUM

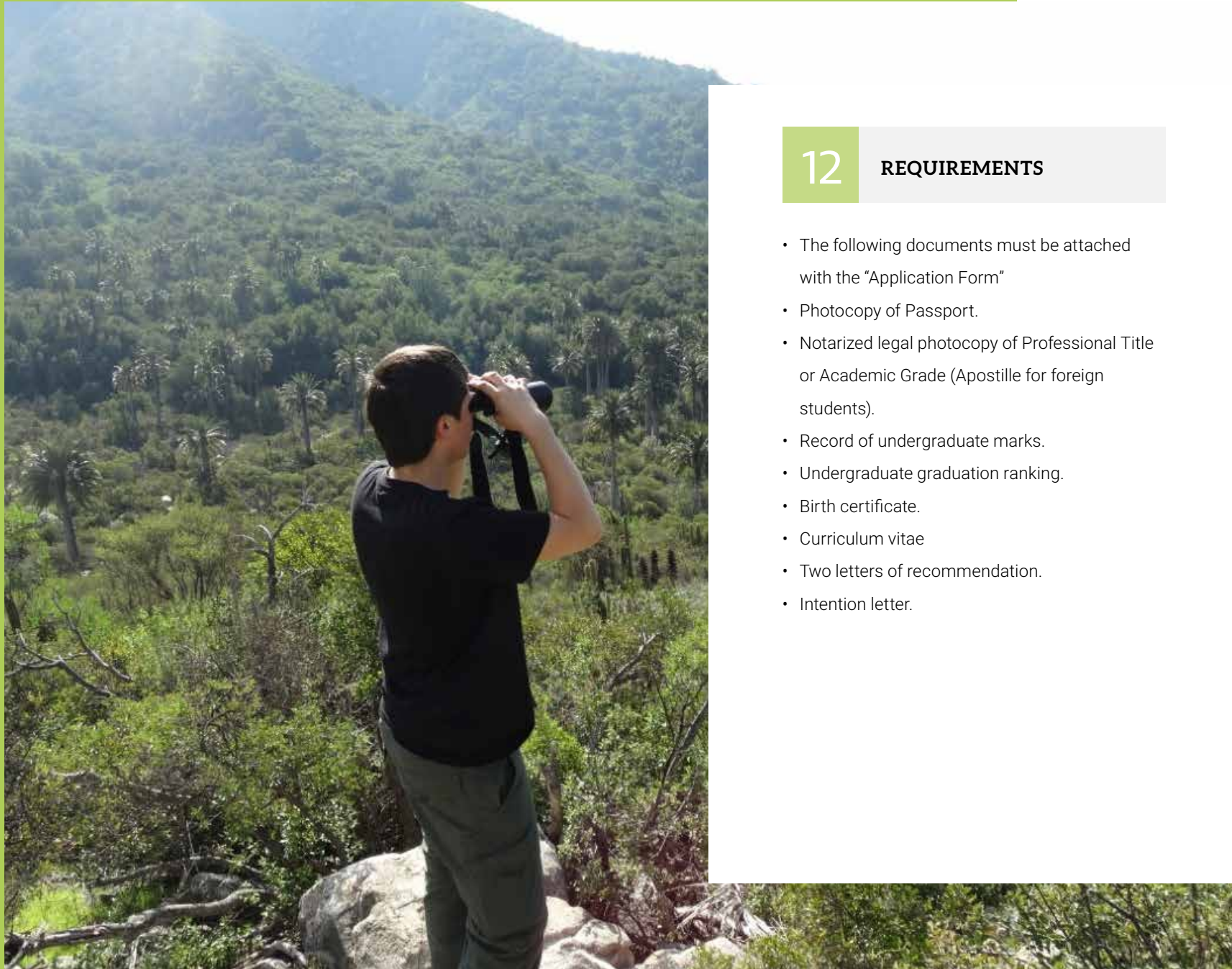
PHD CONSERVATION MEDICINE UNIVERSIDAD ANDRÉS BELLO

	Semestre I		Semestre II	Semestre III	Semestre IV	Semestre V	Semestre VI	Semestre VII	Semestre VIII
ASIGNATURAS OBLIGATORIAS	ONE HEALTH		CONSERVACIÓN Y CAMBIO GLOBAL						
	METODOLOGÍA DE LA INVESTIGACIÓN Y BIOÉTICA		UNIDAD DE INVESTIGACIÓN						
CURSOS ELECTIVOS	CURSO ELECTIVO I		CURSO ELECTIVO III						
	CURSO ELECTIVO II		CURSO ELECTIVO IV						
ACTIVIDADES DE TESIS				PROYECTO DE TESIS	TESIS DOCTORAL I	TESIS DOCTORAL II	TESIS DOCTORAL III	TESIS DOCTORAL IV	TESIS DOCTORAL V
				EXÁMEN DE CANDIDATURA					DEFENSA DE TESIS PRIVADA
									DEFENSA DE TESIS PÚBLICA

ELECTIVE COURSES

- Geographic information system (gis) application in ecosystem health
- Climate change adaptation
- Development and sustainability
- Pathological diagnostics in wildlife
- Ecotoxicology
- Echophysiology in a changing world
- Conservation genetics
- Human dimensions in wildlife conservation
- Ecoimmunology
- Stable isotopes in wildlife
- Microbiology and parasitology
- Statistical and spatial analyses in r
- Topics in ecology
- Wildlife epidemiology





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REQUIREMENTS

- The following documents must be attached with the “Application Form”
- Photocopy of Passport.
- Notarized legal photocopy of Professional Title or Academic Grade (Apostille for foreign students).
- Record of undergraduate marks.
- Undergraduate graduation ranking.
- Birth certificate.
- Curriculum vitae
- Two letters of recommendation.
- Intention letter.

APPLICATIONS FROM
August 15th to October 12th

Application process will be online.
Documents must be sent to the following email address:
ana.torres@unab.cl
Miss Ana Torres
Administrative Secretary of
Postgraduate Programs

INFORMATION
Dr. Claudio Azat
PhD in Conservation Medicine
claudio.azat@unab.cl



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SCHOLARSHIPS AND FUNDS

Universidad Andrés Bello (UNAB) counts with different scholarships for PhD students:

Fee Scholarship

The University contemplates granting accepted students scholarships of up to 100% of the tuition for a maximum of 9 semesters of permanence in the program. The scholarship percentage will be evaluated by the program and must be renewed annually.

Academic Assistance

Academic Assistance is a monthly allowance for 12 months (March to February). This assignment must be renewed annually and may be extended for a maximum of 9 semesters of permanence in the program.

Requisites

Be a regular student of a UNAB PhD program. Begin studying the 4th year in the Program at most. The academic assistance scholarship requires exclusive dedication to the PhD. For programs accredited by the CNA, it is mandatory to apply for the ANID National PhD Scholarship competition.

Support for Attendance at Scientific Events

International Research Internships

Research Initiation Competition

External Scholarships

ANID Scholarship

The National PhD Scholarship aims to financially support PhD studies in all areas of knowledge, in programs accredited in accordance with Law No. 20,129 and taught by Chilean universities, for a maximum period of four years, counted from the date of start of the study program, in addition, if applicable, an extension of maintenance benefits, for up to a maximum of six months, for the writing of the PhD thesis.



Universidad
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Doctorado en Medicina
de la Conservación

