



## Andrea Mariel Actis

**Work permit:** Argentinian

**Nationality:** Argentinian

**Sex:** Female

## CONTACT

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europass

## WORK EXPERIENCE

**Faculty of Medicine University of Buenos Aires** Buenos Aires, Argentina

**University teaching assistant**

01/11/1992 – Current

Teach Biochemistry for medical students

Teach Bioethics for medical students

Write educational material for medical students

Design laboratory practices for medical students

Promote critical thinking

Give feedback after examinations

**Argentine Medical Association** Buenos Aires, Argentina

**Member of the Digital Transformation Commission of the Argentine Medical Association**

04/04/2024 – Current

Develop and implement internal and external communication within the Argentine medical community related to digital transformations and technological developments related to the medical field.

Promote continuing education for healthcare professionals based on digital technologies in the healthcare field, through courses, webinars, and interactive workshops.

Promote collaborative research in the digital health field to facilitate the development of studies related to digital transformation topics.

Strengthen collaborative ties between peer associations in the region to establish the emergence of technological innovation in the healthcare ecosystem.

## EDUCATION AND TRAINING

**01/03/1985 – 30/11/1990** Buenos Aires, Argentina

**Biochemist** Faculty of Biochemistry and Pharmacy - University of Buenos Aires

Website <https://www.ffyb.uba.ar/> | Level in EQF EQF level 7

**01/03/1998 – 15/12/2002** Buenos Aires, Argentina

**Pharmacist** Faculty of Biochemistry and Pharmacy - University of Buenos Aires

Website <https://www.ffyb.uba.ar/> | Level in EQF EQF level 7

**01/04/2014 – 30/11/2018** Buenos Aires, Argentina

**Diploma in Bioethics** FLACSO Buenos Aires

Website <https://www.flacso.org.ar/> | Level in EQF EQF level 8

**01/09/2017 – 30/06/2018** Buenos Aires, Argentina

**Postgraduate degree in Development and Implementation of Health Assessments.** IECS

Website <https://iecs.org.ar/> | Level in EQF EQF level 7

**01/03/2020 – 29/04/2024** Buenos Aires, Argentina

**University Evaluation Specialist.**

Website <https://www.uba.ar/> | Level in EQF EQF level 8

**01/04/2021 – 30/11/2022** Buenos Aires, Argentina

**Specialist in Teaching Design with Technologies at the Higher Level**

Website <https://campus.citep.rec.uba.ar/> | Level in EQF EQF level 8

**01/04/1991 – 12/12/1999** Buenos Aires, Argentina

**PhD** University of Buenos Aires

Website <https://www.uba.ar/> | Level in EQF EQF level 8

**01/04/2002 – 30/06/2005** Buenos Aires, Argentina

**University teaching career** University of Buenos Aires

Website <https://www.uba.ar/> | Level in EQF EQF level 8

**05/04/2023 – CURRENT** Buenos Aires, Argentina

**Master's Degree in Cyber Defense and Cybersecurity** School of Business and Public Administration

Website <https://www.economicas.uba.ar/posgrado/> | Level in EQF EQF level 8

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Spanish

**Other language(s):**

English

Listening B2

Spoken production B2

Reading B2

Spoken interaction B2

Writing B2

*Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user*

## SKILLS

consult students on learning content | bioethics | understand spoken English | interact verbally in English | write English | Microsoft Office | apply teaching strategies | action research | understand written English | Microsoft Word | demonstrate when teaching | Microsoft Excel | Microsoft Powerpoint | Outlook | Zoom | Google Drive | Google Docs | LinkedIn | Instagram | Facebook | Power Point | Spanish | Social Media | Organizational and planning skills | Good listener and communicator | Motivated | Team-work oriented | Internet user | Written and Verbal skills | Creativity | Gmail | WhatsApp | Decision-making | Responsibility | Critical thinking | Reliability | Strategic Planning | Presenting | Analytical skills | Flexibility

## PUBLICATIONS

**2021**

### **Ethical issues related to gen editing using CRISPR-Cas9 technology.**

Immersed already in the 4th industrial revolution, clearly the digital age has invaded our lives. People tend to celebrate every technological and scientific advance without thinking properly about the possible undesired side effects or unexpected consequences. One of the most outstanding achievements of the last years has been the CRISPR/Cas9 technique. It seems to be the magic wand to solve whatever. In this article I propose to think critically about the ethical issues related to this incredible technique. I will focus this work on 3 ethical aspects of gene editing: 1. The link between gene editing and the old concept of eugenics; 2. Aspects related to the idea of modifying human genetics in order to conquer other planets and 3. The ethical implications of uploading all these data to the web. Finally, I suggest focusing on interdisciplinary ethical discussion, the dialogue between professionals, institutions and government which must ensure the protection of the autonomy of patients and the safeguarding of their rights. To conclude, the suggestion of considering the role of Universities in ethical education of the future professionals with a practical rather than a theoretical approach is considered, with special attention to the integration of cybernetics in medicine.

Actis, Andrea Mariel. (2021). Ethical issues related to gen editing using CRISPR-Cas9 technology. Revista de Bioética y Derecho, (53), 203-214. Epub 21 de noviembre de 2022. <https://dx.doi.org/10.1344/rbd2021.53.33505>

**Authors** Andrea Mariel Actis | **Journal Name** Revista de Bioetica y Derecho | **Volume, Issue and Pages** 53: 203-214 |

2021

## Consideraciones bioéticas en relación con el uso de la inteligencia artificial en mastología

Mammographic screening has helped to identify breast cancer in its earliest stages, when treatment is most effective. The use of Artificial Intelligence in the analysis of mammograms has proved to be able to excel the human eye in detecting lesions in the breast that may be suspicious for cancer. The objective of this study is to make a reflective contribution on the advancement of digital technology and in particular, Artificial Intelligence in mammographic screening, from the technical and bioethical points of view. Advantages and limitations of Artificial Intelligence are analyzed explaining how machine learning occurs. A bioethical debate is proposed on issues such as privacy, credibility, accountability and continuous education. The importance of establishing channels of dialogue between all stakeholders in the incorporation of new technologies in medicine is highlighted.

Actis, Andrea. (2021). Consideraciones bioéticas en relación con el uso de la inteligencia artificial en mastología. Revista Médica del Uruguay. 37. 10.29193/RMU.37.4.12.

**Authors** Andrea Mariel Actis | **Journal Name** Revista Médica del Uruguay | **Volume, Issue and Pages** 37(4): e37413, |

2024

## Experiencia del módulo optativo Inteligencia Artificial y Big Data en Salud en la Carrera de Medicina.

In this article, we share the experience developed in the Medicine degree, through the Optional Module "Artificial Intelligence and Big Data in Health". This initiative arises in response to the growing implementation of this technology in the healthcare field, and seeks to integrate students and teachers in the exploration of the applications of Artificial Intelligence (AI) and Big Data (BD) in Health. The Optional Module was conducted by the Department of Normal Anatomy (FCM-UNC) in collaboration with the Department of Medical Informatics, with the objective that the Medical student acquires knowledge about new technologies applied to morphological sciences and surgical medical procedures, considering ethical and legal aspects. The methodological tools used were in virtual mode, synchronous and asynchronous, sharing materials and resources didactics through the Moodle platform. A final evaluation was implemented in the form of practical work, review of academic articles and clinical cases of application of AI and BD in medicine.

Experiencia del módulo optativo Inteligencia Artificial y Big Data en Salud en la Carrera de Medicina. Quinteros C, Actis AM, Juri G, Sánchez Carpio CA. Revista Argentina de Morfología 5(4): 5-8 (2024).

**Authors** Quinteros C, Actis AM, Juri G, Sánchez Carpio CA. | **Journal Name** Revista Argentina de Morfología |

**Volume, Issue and Pages** 5(4): 5-8 |

2022

## Biocyberethics and Artificial Intelligence in Medicine

The problem is to believe that using AI in education is limited only to improving content presentations with new apps and automating evaluation. The problem is putting the focus on the how and forgetting the what we want to teach. Teamwork between designers, developers, teachers and students is required more than ever to enhance creativity in problem solving and also the constant and necessary practice of reflective thinking. The challenge of higher education today is to prepare future generations of professionals to solve the unexpected, the accumulation of data and academicism must be put aside: data springs from cell phones! Teachers have to get more involved in this change, without waiting for the university to move the first token to start the game.

Actis, A.M., 2022, Biocyberethics and Artificial Intelligence in Medicine, pp271-294. In: AI Ethics and Higher Education, Good Practice and Guidance for Educators, Learners and Institutions, Green/Singh/Chia (Eds.), Geneva: Globethics.net

**Authors** Andrea Mariel Actis | **Journal Name** Book: AI ethics and Higher Education |

**Volume, Issue and Pages** p 271-294 | **Publisher** Globethics