

# Ana Lima

Montevideo, Uruguay

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## Biochemistry Student & Virology Intern

**DNA Extraction**

**RNA Extraction**

**Degree:**

**Languages:**

**Technologies:**

**Protein Extraction**

**Cell Culture**

**Bachelor of Science, Biochemistry, UdelaR (2021).**

English, Spanish, Portuguese.

Chimera, R studio, Gaussian, NCBI BLAST, Avogadro.

**RT-PCR & qPCR**

**ELISA**

**Molecular Modeling**

**Management**

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### PROFESSIONAL SUMMARY

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I'm currently studying biochemistry with high interest in a career in Virology. I have 5 years of experience with over 2,000 hours of wet lab research and 145 hours of dry lab experience throughout undergraduate study and internships. I love to study viruses, how they interact with the host cell, and how the immune system responds against viruses. To do this, I am taking a variety of courses in Virology and Virology-related subjects. Also, I am currently doing an internship at the Virology department in my school. In the future, I want to lead a group of 5 to 10 young graduates into developing vaccines in a creative new way against a broad spectrum of viruses.

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### RESEARCH EXPERIENCE

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#### Virology Intern

(2018-Present)

Department of Virology, Universidad de la República, Uruguay

- Evaluate the risk of HEV transmission associated with 39 pig and wild boar meat-derived products in Uruguay.
- Conduct RNA extraction from 24 pork liver pâté and 15 sausages and assess both quantity and quality.
- Foster collaboration with Institut Pasteur Montevideo with cDNA from pâté samples.

#### Molecular Intern

(2019-Present)

Computational Chemistry and Biology Group, Universidad de la República, Uruguay

- Operate a comparative study of complex ligand-receptor of human PPAR $\gamma$  with fluorescent probes derived from BODIPY, 2zk6.
- Implement structural analysis of the active site from 20 different PDB entries.
- Develop modeling and optimization of 20 BODIPY derivatives and protonated BODIPY, e.g., 2zk6.

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### EDUCATION

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#### Bachelor of Science, Biochemistry

(2015-Present)

Universidad de la República, School of Sciences

- GPA: 3.1
- **Thesis:** Evaluation of risk of transmission of Hepatitis E Virus associated with the consumption of derived pork products in Uruguay.

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### RELEVANT COURSES

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<b>Biological Physical-Chemistry</b> , School of Sciences, Universidad de la República	(2019)
<b>Virology</b> , School of Sciences, Universidad de la República	(2018)
<b>Molecular Virology</b> , School of Sciences, Universidad de la República	(2018)
<b>Molecular Biology</b> , School of Sciences, Universidad de la República	(2018)
<b>Animal Physiology</b> , School of Sciences, Universidad de la República	(2018)
<b>Genetics</b> , School of Sciences, Universidad de la República	(2017)
<b>Microbiology</b> , School of Chemistry, Universidad de la República	(2017)
<b>Immunology</b> , Hygiene Institute, Universidad de la República	(2017)
<b>Biostatistics</b> , School of Sciences, Universidad de la República	(2016)

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### EXTRACURRICULAR COURSES

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<b>qPCR</b> , Hygiene Institute, Universidad de la República	(2020)
<b>Proteins: Biology's Workforce</b> , EdX, Rice University	(2020)
<b>Managing Projects Effectively</b> , American Chemistry Society	(2020)
<b>Running Productive Meetings</b> , American Chemistry Society	(2020)
<b>Becoming an Effective Contributor</b> , American Chemistry Society	(2020)
<b>Matching Interests with Goals</b> , American Chemistry Society	(2020)
<b>Molecular Modeling</b> , School of Chemistry, Universidad de la República	(2019)
<b>Viruses &amp; How to Beat Them: Cells, Immunity, Vaccines</b> , EdX, Tel Aviv University	(2019)

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### ADDITIONAL EXPERIENCE

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#### Conference presentation

- **Lima, A.**; Cancela, Florencia; Arbiza, Juan & Mirazo, Santiago. Detection and characterization of the Hepatitis E virus in products driver from pork meat. Oral presentation delivered at the Meeting of Young Microbiologists, Montevideo. (2020)
- **Lima, A.**; Bremermann, V.; Martínez, G. & Martínez, M. Microorganisms as sources of enzymes with the biotechnological application. Poster presentation delivered at the Seminar of Research in Biological Science, Montevideo. (2015)

#### Volunteering

- Mentored Chemistry high school student who achieved 3.8 GPA from 2.0. (2013-2015)
- Mentored Physics high school student who obtained 97% on final exam. (2014)

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### PROFESSIONAL ORGANIZATIONS

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#### Associations

- **Member**, American Society for Microbiology (2020)
- **Member**, American Society for Virology (2020)
- **Member**, American Chemical Society (2020)
- **Member**, American Society for Biochemistry and Molecular Biology (2020)
- **Member**, International Society for Antiviral Research (2020)
- **Member**, Uruguayan Society of Microbiology (2020)
- **Member**, Uruguayan Society for Chemistry and Pharmaceutics (2020)