

ANTHONY TORRES-RUESTA, PhD

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PERSONAL STATEMENT:

I am a versatile scientist with a strong track record in biomedical research across academia and pharma, focusing on infectious diseases with epidemic and pandemic potential, including malaria, SARS-CoV-2, and Mpox. My career evolved during COVID-19, expanding into global health with an interest on biosecurity, pandemic resilience and technology transfer. With experience spanning three continents, I am deeply committed to translating scientific innovation into equitable access frameworks through improved global health governance.

EDUCATION:

- **Oct 2024 to June 2025 University of Cambridge, United Kingdom**
Master of Philosophy in Population Health Sciences (Global/Public Health)
Grade (expected): Distinction. Funded by: Peru's Presidential Scholarship.
- **Jan 2018 to Jan 2022 National University of Singapore (NUS), Singapore**
Doctor of Philosophy (Virology and Immunology)
Grade: Highest Distinction. Funded by: A*STAR SINGA Scholarship.
- **Apr 2011 to Oct 2016 Universidad Nacional de Piura, Peru**
Bachelor's Degree in Biological Sciences
Grade: First Class with Honors (Class rank: 1/62).
- **Aug 2014 to Jul 2015 University of Bordeaux, France**
Licence 3 (L3) coursework (academic exchange).
Funded by: EU Erasmus Mundus PUEDES Scholarship.

EXPERIENCE:

- **Oct 2024 to date. MPhil student at the Department of Public Health and Primary Care, University of Cambridge, United Kingdom.**
 - Relevant modules: Public Health and Policy, Leadership and Change for Public Health, Globalization and Global Health Governance, Health Economics, Health Systems for All, Social and Spatial Epidemiology, Qualitative and Mixed Research Methods and Planetary Health.
 - Experience with drafting policy briefings, impact presentations to stakeholders, conducting analysis of current global health policies, forecasting scenarios in global health and health policy analysis.
 - As part of the Globalization and Global Health Governance module, we studied the implications of the TRIPS Agreement and the WHO-WIPO-WTO Trilateral Cooperation on public health, IP, technology transfer and trade.
- **Apr 2022 to Sep 2024. Scientist at the Laboratory of Microbial Immunity, A*STAR Infectious Diseases Labs (ID Labs), Agency for Science, Technology and Research (A*STAR), Singapore.**
 - Clinical research profiling immune responses of Asian populations to COVID-19 vaccines and homologous/heterologous booster combinations. This work contributed to the development of policies surrounding age-specific boosting recommendations by Singapore's Ministry of Health.
 - BSL-3 training and clinical research involving pandemic preparedness and outbreak response (Mpox virus). This work contributed to the development of policies on Mpox quarantine requirements by Singapore's Ministry of Health.
 - Pharma industry projects and international partnerships: Including pre-clinical assessment of vaccine candidates for Chikungunya virus in collaboration with Imophoron Ltd (UK-based) and evaluation of diagnostic technologies for COVID-19 with SpearBio (US-based).

- **Jan 2018 to Jan 2022. PhD student at the Laboratory of Microbial Immunity, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR), Singapore.**
 - Doctoral thesis: “*Immunopathogenesis of alphaviruses and malaria parasites co-infection in mouse models*”. Supervisor: Prof. Lisa Ng Fong Poh.
 - Designed and conducted experiments exploring the immunopathological consequences of co-infections between malaria parasites and alphaviruses in murine models.
 - Contributed to Singapore’s national response to the COVID-19 pandemic as a frontline researcher, characterizing recovered COVID-19 patients and identifying viral regions that can be targeted for vaccine development. This work contributed to policy development and decision-making by the Government of Singapore on COVID-19 public health measures to curb the spread of the virus.
- **Jan 2017 to May 2017. Research Intern at the Laboratory of Microbial Immunity, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR), Singapore.**
 - Characterization of antiviral proteins during Chikungunya virus (CHIKV) infection focused on identifying Viperin (RSAD2) interacting proteins and Viperin-mediated antiviral immune responses in mouse models.
- **Jan 2016 to Jan 2017. Research Intern at the Laboratory of Malaria, Unit of Molecular Epidemiology (UEM), Institute of Tropical Medicine “Alexander von Humboldt” (IMTA vH), Cayetano Heredia University, Peru.**
 - Molecular and sero-epidemiological studies of *Plasmodium vivax* malaria in the Peruvian Amazonia.

AWARDS AND HONOURS (For more details refer to my LinkedIn profile):

- Josep Trueta Bursary, Summer School in Real World Evidence studies, University of Oxford, 2025.
- Social Innovation + Change Initiative Scholarship, Harvard Kennedy School, 2025.
- The Cambridge Union’s Silver Street Scholarship, 2024.
- Peru’s Presidential Scholarship (Bicentennial Generation Scholarship), 2024.
- Department of Public Health and Primary Care Studentship, University of Cambridge, 2024.
- American Society of Tropical Medicine and Hygiene Young Investigator Award (1st Prize), 2023.
- 11th Global Young Scientists Summit (GYSS) Singapore (Selected Participant), 2023.
- Selected Oral Presentation Award – 1st Runner-up Prize, 2021.
- *Springer Nature* Best Oral Presentation Award – Second Prize, 2021.
- Student and Early Career Researcher (ECR) Award, 2020.
- Week of International Scientific Young Talents – Paris, 2018 (Awardee).
- A*STAR Singapore International Graduate Award - SINGA, 2018.
- University of Chile Winter School Awardee, 2017.
- A*STAR Singapore International Pre-Graduate Award - SIPGA, 2017.
- EducationUSA Opportunity Funds Program Awardee, 2016.
- Academic Achievement Award, Universidad Nacional de Piura, 2015.
- EU Erasmus Mundus Action 2 Scholarship, 2014.
- Faculty of Science’s Honour Roll, Universidad Nacional de Piura, 2011-2015.

LEADERSHIP EXPERIENCE:

- **Apr 2022 to Apr 2024.** Postdoc Representative at Post*ID (A*STAR ID Labs Postdoc Association).
- **Aug 2018 to Jan 2022.** PhD student Representative at SIgNAPS (SIgN Association of Postdocs, Students and Staff).
- **Mar 2018 to Mar 2019.** Vice President at National University of Singapore’s Biochemistry Graduate Student Association (BIGSA).

VOLUNTEERING EXPERIENCE:

- **Oct 2025 to date.** Fundraising Officer at Students for Global Health, University of Cambridge.
- **Mar 2023 to date.** STEMM Mentor at Global Talent Mentoring Program by the World Giftedness Center.
- **Oct 2022 to Dec 2023.** Invited Scientist at Singapore's Ministry of Education (MOE) Scientist-in-Schools (SiS) program.
- **Jun 2016 to Feb 2021.** Mentor & Coordinator at Serendipity: Mentorship in Science Program.
- **Feb 2018 to Mar 2021.** Organizer at Pint of Science Festival (Singapore Edition).

ACADEMIC PRESENTATIONS:

- **American Society of Tropical Medicine and Hygiene Annual Meeting 2023.** Oral and Poster presentation. Chicago, USA. 18th-22nd Oct 2023.
- **Gordon Research Conferences - Viruses and Cells 2023 "The Biology of Viral Infection: Replication, Host Interactions and Pathogenesis"**. Poster presentation. Barcelona, Spain. 21st-26th May 2023.
- **International Vector-Borne Diseases Hybrid Conference 2021 (IVBDC 2021).** The Infectious Diseases Translational Research Programme (ID TRP), National University of Singapore. Poster presentation. Singapore, 16th-18th Nov 2021.
- **9th Annual Biomedical Scientific Congress (ABSC 2021).** Yong Loo Ling School of Medicine, National University of Singapore. Poster presentation. Singapore, 7th-8th Oct 2021.
- **8th Australasian Vaccines and Immunotherapeutic Development Meeting 2020.** Poster presentation. 9th-10th Dec 2020.
- **2nd Annual Symposium MIGSS 2018.** Yong Loo Ling School of Medicine, National University of Singapore. Poster presentation. Singapore, 21st-22nd Nov 2018.
- **6th Singaporean Society for Immunology Student and Postdoc Retreat 2018, Nanyang Technological University.** Poster presentation. Singapore, 23rd Nov 2018.
- **66th American Society of Tropical Medicine and Hygiene Annual Meeting 2017.** Poster presentation. USA, 5th -9th Nov 2017.
- **ICPVR International Conference on Plasmodium Vivax Research 2017.** Poster presentation. Brazil, 11th – 14th Jun 2017.

ACADEMIC PUBLICATIONS:

For an updated list refer to: <https://scholar.google.com/citations?hl=en&user=ih8-4gwAAAAJ>

LANGUAGES:

- *Spanish:* Native/mother tongue.
- *English:* Fluent.
- *French:* Conversational.

REFERENCES:

Provided on request.