

CHRISTOPHER P. LOO

Postdoctoral Research Fellow

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Apply my diverse skillset and education to build a bridge between immunology and bioinformatics to advance precision therapy.

First-class problem solver with excellent interpersonal skills. Enthusiastic about bioinformatics, eager to contribute to team success through hard work, attention to detail, and excellent organizational skills. Motivated to learn, grow and excel in the field of bioinformatics and computational biology.

Skills

R proficiency

Immunology

Python proficiency

Written and Oral Communication

Machine Learning

MS Office

Database Management (SQL)

Teambuilding

Cloud Computing

Critical thinking

Flow Cytometry

Responsible

Work History

2019-09 -

Bioinformatics Master's Student

Current

Oregon Health and Science University, Laboratory of Reid Thompson, Portland, OR

- Participate in vaccine development through neoepitope prediction from DNA/RNA samples of AML patients.
- Develop translational immune therapies through characterization of T cell immune responses to novel immune-therapies in AML.
- Used R and Python to model data and forecast trends.
- Developed and updated tracking spreadsheets using SQL.
- Collected, arranged and input information into database system.

2016-01 -

Postdoctoral Research Fellow

2019-07

Oregon Health and Science University, Portland, OR

- Developed a mouse model of acute myeloid leukemia (AML) to support in vivo testing of novel immunotherapies.
- Characterized the T cell immune response and tumor microenvironment in AML.
- Tracked and analyzed reports to determine needed improvements.

2015-01 - Postdoctoral Skin Pathogenesis T32 Training grant recipient
2016-01

Postdoctoral Research Fellow

2014-03 - Oregon Health and Science University, Portland, OR
2015-12

- Identified immune correlates of lymphatic vessels to viral infection (vaccinia virus) and disease progression in melanoma cancer.
- Designed research projects and alternative approaches and discussed results with collaborators.
- Maintained accurate records of research findings and provided statistical analysis of data results.
- Worked to improve collective knowledge of lymphatic vessel biology and immunology.
- Drafted manuscripts and presented findings.

Graduate Student

2008-07 - Oregon Health and Science University, Portland, OR
2014-02

- Laboratory of Ann B.
- Hill, MD, Ph.D.
- Elucidated T cell responses from a single round of antigen exposure from a replication-deficient murine cytomegalovirus infection.
- Designed multi-parameter flow cytometry panels.

2012-01 - • Pre-doctoral Pathogenesis T32 Training grant recipient 2009 – 2012 Pre-
2013-01 • doctoral PMCB T32 Training grant recipient 2007 – 2008.

Research Associate III

2003-01 - J. David Gladstone Institutes / UC San Francisco, Douglas F. Nixon, San Francisco,
2007-01 CA

- Defined a mechanism of IL-2 mediating the cellular immune crosstalk between natural killer (NK) cells and T cell in HIV patients.
- Researched mechanisms related to regulatory T cell suppression of immune response in HIV pediatric and adult patients.

Lab Technician

2001-01 - University of California Santa Cruz, Santa Cruz, CA
2002-01

- Contributed to the research of pharmacological cancer therapeutics.

- Extracted and purified sponge and fungal metabolites through column chromatography.
- Assisted in compound elucidations through LCMS and NMR.
- Certified in NAUI SCUBA.

1999-01 - **Veterinary Technician**

2000-01 Santa Cruz Biotechnology, Santa Cruz, CA

- Monitored health of production animals (2000 goats, 9 donkeys, and 3 horses).
- Administered medicine, vaccines, and performed phlebotomy on animals.

1999-01 - **Volunteer Researcher**

2000-01 University of California Santa Cruz, Santa Cruz, CA

- Contributed to the research of DNA sequencing found in algae and bacteria for taxonomic classification.
- Collected algae and bacteria along the Northern California coast.

Education

2021-06 **MS**

Oregon Health and Science University - Portland, OR

PhD: Molecular Microbiology and Immunology

Oregon Health and Science University - Portland, OR

BA: Molecular, Cellular and Developmental Biology

University of California - Santa Cruz, CA