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Memorial Sloan Kettering  
Cancer Center

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IMMUNOLOGY PROGRAM

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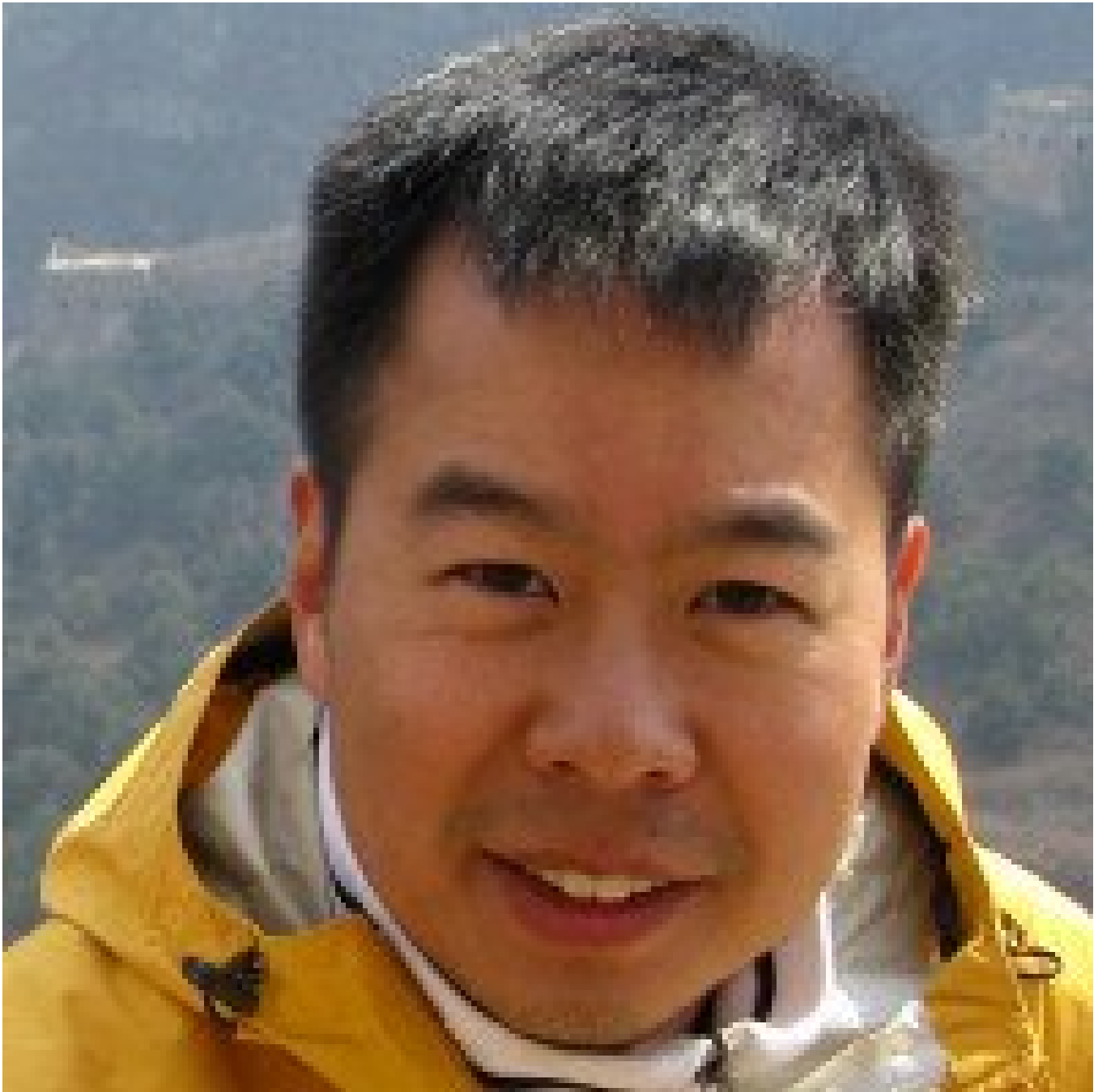
## The Joseph Sun Lab

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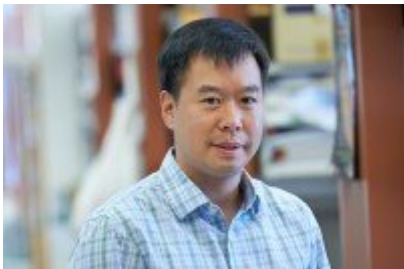
Joseph Sun, PhD

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The immune system responds to viral infections by introducing a complex interplay of immune cells and factors, whose goal is to eliminate the intruding pathogen. One such effector cell in the antiviral response is the Natural Killer (NK) cell, which secretes inflammatory cytokines and directly kills infected cells. The focus of our research is aimed at defining the signals that NK cells require to mount an effective immune response against pathogens. We are also exploring the regulatory mechanisms keeping NK cells in check, thereby safeguarding against potential autoimmunity.



## Featured News



### [At Work: Immunologist Joseph Sun](#)

Immunologist Joseph Sun is an investigator in the Sloan Kettering Institute's Immunology Program. Dr. Sun's research is focused on natural killer cells, a part of what is called the innate immune system.

## FEATURE



## [Meet the Unsung Immune Cell that Could Change Immunotherapy](#)

A lesser-known immune cell is suddenly getting more attention in the field of cancer immunology.

## Publications Highlights

Lau CM, Adams NM, Geary CD, Weizman O, Rapp M, Pritykin Y, Leslie CS, Sun JC. 2018. Epigenetic control of innate and adaptive immune memory. *Nat Immunol.* 19:963-972.

Adams NM, Lau CM, Fan X, Rapp M, Weizman O, Geary CD, Diaz-Salazar C, Sun JC. 2018. Transcription factor IRF8 orchestrates the adaptive natural killer cell response. *Immunity.* 48:1172-1182.


[View All Publications](#)


## People



## Joseph Sun, PhD

Immunologist Joseph Sun investigates the natural killer cell response against infection and cancer.  
PhD, University of Washington

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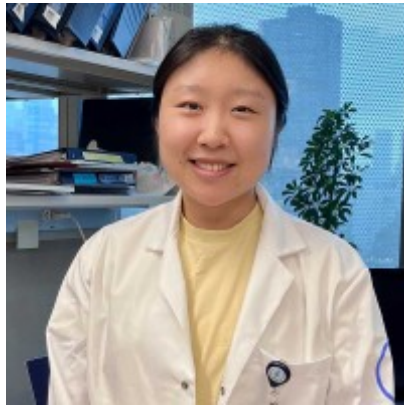
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## Members

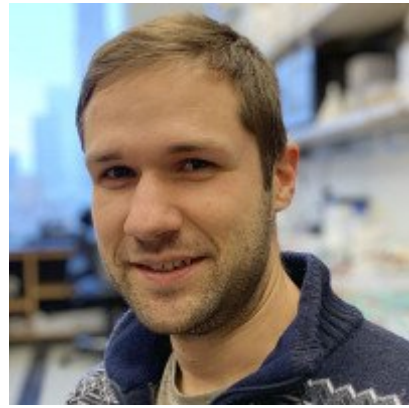
Veronica  
Shields  
Administrative Assistant

Celeste Dang  
Graduate Student

Rebecca Delconte  
Research Fellow



Sherry Fan  
Graduate Student



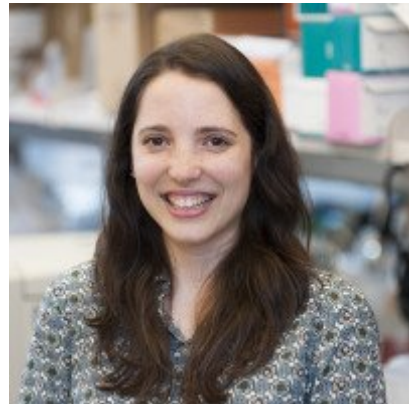
Simon Grassmann  
Research Fellow



Hyunu Kim  
Graduate Student



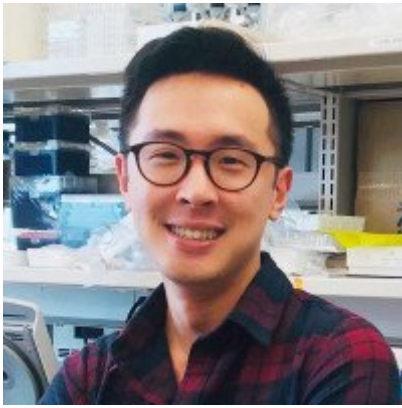
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Owyong  
Graduate Student



Endi  
Santosa  
Graduate Student



Jack Sauter  
Research Technician



Joseph Sun  
Member



Jennifer  
Zhang  
Research Technician

Lab Alumni  
+

Lab Affiliations  
+

## Achievements

Weill Cornell Graduate School Outstanding Teaching & Mentoring Award (2022)

American Cancer Society Research Scholar (2017)

Burroughs Wellcome Fund Investigator in Infectious Disease (2016)

Boyer Young Investigator Award for Basic Research (2015)

Geoffrey Beene Junior Faculty Chair (2014)

Read more

+

## Lab News & Events

[Lab Photo Album](#)

## Open Positions

To learn more about available postdoctoral opportunities, please visit our [Career Center](#)

To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit [Resources for Postdocs](#)

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## Get in Touch

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## Disclosures

Doctors and faculty members often work with pharmaceutical, device, biotechnology, and life sciences

companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community.

MSK requires doctors and faculty members to report (“disclose”) the relationships and financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the public.

Joseph Sun discloses the following relationships and financial interests:

*No disclosures meeting criteria for time period*

The information published here is for a specific annual disclosure period. There may be differences between information on this and other public sites as a result of different reporting periods and/or the various ways relationships and financial interests are categorized by organizations that publish such data.

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