

**Yuhao Wang**  
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**Education:**

University of California, San Francisco – San Francisco September 2017 – Present  
Ph.D. Candidate in Biomedical Sciences Program

University of Chicago – Chicago, IL September 2012 – June 2016  
B.S in Biological Sciences with Honors- Specialization in Cancer Biology; Minor in Classical Studies  
GPA: 3.6644/ 4 – Dean’s List 11 Quarters  
Science/ Math GPA: 3.775/ 4

La Jolla High School – La Jolla, CA September 2008 – June 2012  
Salutatorian  
Weighted GPA: 4.82/ 4  
Unweighted GPA: 4.00/ 4

**Research Experience**

University of California, San Francisco, San Francisco CA- Graduate Student September 2017- Present  
*Graduate Student in the McManus Lab*

- Used CRISPR/Cas9 technology and various cancer cell lines to determine genetic and epigenetic regulators of persister cells
- Used CRISPR/Cas9 technology to determine the effect of knocking down essential genes on cell physiology and morphology
- Responsible for planning, designing, and performing experiments, as well as analyzing data

Salk Institute, San Diego CA- Laboratory Technician June 2016- July 2017  
*Laboratory Technician in the Evans Lab*

- Worked under and helped post-doctoral fellows with running experiments and research
- Responsible for day-to-day experiments

University of Chicago, Chicago IL- Student Researcher November 2012 – June 2016  
*Student Laboratory Technician in the Greene Lab*

- Used animal models and breast cancer cell lines to study nuclear receptors and coregulators in triple negative breast cancer
- Responsible for planning, designing, and performing experiments, as well as analyzing data

University of California, San Diego, San Diego CA- Research Intern June 2012 – August 2012  
*Summer Laboratory Intern in the Woods Lab*

- Performed analysis and data reduction of DXMS data
- Contributed to projects with computational work

**Teaching Experience**

Teaching Assistant for Genetics (BMS 255) Winter Quarter 2019

- Aided lecturers with presentations
- Graded midterm and final exams

Tutor for Genetics (BMS 255) Winter Quarter 2020

- Tutored students in genetics concepts and lecture materials

## Skills

- Extensive experience in mammalian cell culture both in primary and immortalized cells
- Experience in cellular transfection of DNA and siRNA with FuGene, Lipofectamine, and Dharmafect as well as electroporation
- Highly skilled in molecular biology techniques including RNA extraction, cDNA synthesis, qPCR, PCR, cloning, DNA extraction and purification, gel electrophoresis of DNA, protein extraction from cells and tissues, protein quantification using the Bradford assay and BCA assay, Western blotting, ChIP, ChIP-seq, IP, staining cells and performing fluorescent confocal microscopy
- Skilled in molecular cloning techniques
- Experience with preparation of cells for FACS and performance of FACS
- Knowledge in CRISPR-Cas9 gene editing and manipulating gene expression with dCas9
- Experience with mice techniques including intraperitoneal and subcutaneous injections, anesthesia, in vivo imaging using the Xenogen IVIS system, creating PDX model lines, harvesting and dissociating tumors, performing tail clips, and euthanasia
- Experience in using Microsoft Office (Word, Excel, and Powerpoint), Photoshop, ImageJ, MatLab, and Pymol

## Publications, Abstracts, and Presentations

1. Bale S, Liu T, Li S, **Wang Y**, Abelson D, et al. Ebola virus glycoprotein needs an additional trigger, beyond proteolytic priming for membrane fusion. *PLoS Negl Trop Dis*. 2011 Nov; 5(11): e1395.
2. Wang, Yuhao. "The Role of GATA3 in EMT and Metastasis". University of Chicago BSCD Symposium. 2013.
3. Wang, Yuhao. "The Effect of Targeting Nuclear Receptors on the Proliferation and Metastasis of Triple Negative Breast Cancers". University of Chicago BSCD Symposium. 2014.
4. Chang YF, **Wang Y**, Greene G. Targeting nuclear receptors and their coregulators in triple-negative breast cancer. Poster presented at 2016 Annual AACR Meeting; 2016 April 18; New Orleans, LA.
5. Wang, Yuhao. "The Effect of Targeting Nuclear Receptors and Coregulators in Triple Negative Breast Cancer". Undergraduate Honors Research Thesis Defense at the University of Chicago. 2016.
6. Samaeekia R, Adorno-Cruz V, Bockhorn J, Chang YF, **Wang Y**, et al. MicroRNA-206 inhibits stemness and metastasis of breast cancer by targeting MKL1/IL11 pathway. *Clin Cancer Res*. 2016 Jul.
7. Wei Z, Yoshihara E, He N, Han N, Fan W, Pinto AFM, Huddy T, **Wang Y**, et al. Vitamin D Switches BAF Complexes to Protect  $\beta$  Cells. *Cell*. 2018 May.
8. **Wang Y**, McManus M. Chemical Control of dCas9-KRAB with a Drug-Inducible Anti-CRISPR Peptide. Manuscript in progress.
9. **Wang Y**, McManus M. Hypomorphic Essential Gene Screen Reveals Dose-Dependent Genes for Cell Viability. Manuscript in progress.

## Fellowships and Awards

NSF GFRP Fellow	2018
Honors BA Thesis Fellow at University of Chicago	Summer 2015- June 2016
Beatrice Garber Summer Scholar at University of Chicago	Summer 2014
BSCD Research Fellow at University of Chicago	Summer 2013

## Honors and Distinctions

Salutatorian, La Jolla High School	2012
Questbridge Finalist	2012
National AP Scholar	2012
National Merit Finalist	2012