

JIHYEON JE

INDEPENDENT RESEARCHER

CONTACT

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GITHUB: [HTTPS://GITHUB.COM/JIHYEONJE/JJ-WSS18](https://github.com/JIHYEONJE/JJ-WSS18)

PROFILE

I love engineering, reading, and cooking Korean soul food. As an independent student researcher, my research interests encompass all fields of biotechnology, especially the disassembly pattern and structure of viral capsids. Some of my past projects have been focused on connecting mathematical concepts with biology and chemistry. I am currently working with NCMIR at UCSD to develop better analysis programs for tracing images and large datasets.

EXPERIENCE

INTERNSHIP | PROGRAM DEVELOPER

UCSD(UNIVERSITY OF SAN DIEGO), NCMIR(NATIONAL CENTER FOR MICROSCOPY AND IMAGING RESEARCH), MARK ELLISMAN LAB, SAN DIEGO, CA | 2017.07.09 ~

"Automatic Segmentation of Organelles & MAM contacts"
"Viral Tracing of Fragile X"
"Axon Image Processing"

STUDENT AMBASSADOR | PROGRAM DEVELOPER

WOLFRAM ALPHA | 2018.07.09 ~

"Mathematical/Computational Analysis of Viral Capsids"
[http://community.wolfram.com/web/jej19/home?
p_p_id=user_WAR_userportlet&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_count=1&tabs1=Discussions](http://community.wolfram.com/web/jej19/home?p_p_id=user_WAR_userportlet&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_count=1&tabs1=Discussions)

INTERNSHIP

UNIST(ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY) PROTEIN ENGINEERING LAB | 2015. 02 - 2016. 01

"Development of a Fusion Nano Probe using Affibody"

EDUCATION

COLLEGE PREPARATORY PROGRAM

WESTERN RESERVE ACADEMY | 2016 - 2019

| HUDSON, OHIO

JANGAN MAGNET SCHOOL FOR MATH AND SCIENCE

| 2015-16 | BUSAN, KOREA

INDIVIDUAL PROJECTS

- Modeling Protein Structure of Viral Capsids | 2018~
- Analysis of Axon Intensity from Images | 2018
- Disassembly Mechanism of STMV Capsid | 2017~
- Contacts Between the Endoplasmic Reticulum and other Organelles in Neurons(UCSD) | 2017
- Destruction of Viral Capsid through the Application of Polyhedral Structure | 2016
- Attaining Visibility of Car Lanes with LED in Rainy Nights | 2015

LANGUAGES

KOREAN(NATIVE LANGUAGE), ENGLISH, CHINESE, LATIN