# CHANG-YU CHANG 張昌祐

My research interest lies in the intersection of systems biology and microbial community ecology and evolution. I combine theory and experiment to study how microbial communites assemble and evovle.



## **EDUCATION**

now 2017

Ph.D. Candidate, Ecology and Evolutionary Biology

Yale University

New Haven, CT

· Thesis: Engineering emergent properties of microbial communities

· Advisor: Dr. Alvaro Sanchez

2015 2011

B.S., Life Science

National Taiwan University

**♀** Taipei, Taiwan

- · Math and computational courses oriented
- · Presidential and Dean's Award (ranking top 5% in the class)



### SELECTED PUBLICATIONS

2021

Engineering complex communities by directed evolution (2021). Nature **Ecology & Evolution** 

https://doi.org/10.1038/s41559-021-01457-5

- · Chang-Yu Chang\*, Jean C C Vila\*, Madeline Bender, Richard Li, Madeleine C Mankowski, Molly Bassette, Julia Borden, Stefan Golfier, Paul Gerald L Sanchez, Rachel Waymack, Xinwen Zhu, Juan Diaz-Colunga, Sylvie Estrela, Maria Rebolleda-Gomez, Alvaro Sanchez
- ·\* contributed equally.
- · Coauthors include students from courses PBoC2019 and F&FB 729

2021

Directed Evolution of Microbial Communities (2021). Annu. Rev. Biophys. https://doi.org/10.1146/annurev-biophys-101220-072829

· Alvaro Sanchez, Jean C C Vila, Chang-Yu Chang, Juan Diaz-Colunga, Sylvie Estrela, Maria Rebolleda-Gomez

2020

Artificially selecting bacterial communities using propagule strategies (2020). Evolution

https://doi.org/10.1111/evo.14092

- · Chang-Yu Chang\*, Melisa L Osborne\*, Djordje Bajic, Alvaro Sanchez.
- ·\* contributed equally.



# • FELLOWSHIP

2020 2017

Government Fellowship for Oversea Study

Taiwan Ministry of Education

· \$126.000



View this CV online with links at changyuchang.name

## CONTACT INFO

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- **G** google scholar
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For more information, please contact me via email.

#### SKILLS

This resume was made with the R package pagedown.

The source code is available at github.com/Chang-Yu-Chang/cv.

Last updated on 2022-01-18.

# REFERENCES

### Dr. Alvaro Sanchez

Ph.D. advisor

• alvaro.sanchez@yale.edu

· Assoiciate Professor, Yale University

#### Dr. Maria Rebolleda-Gomez

Ph.D. lab colleague

• mreboll1@uci.edu

 $\cdot$  Assistant Professor, University of California, Irvine

#### Dr. David Vasseur

Dissertation committee

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· Professor, Yale University

## Dr. Sheng-Feng Shen

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 $\cdot$  Research Fellow (Professor), Academia Sinica in Taiwan