

CHANG-YU CHANG 張昌祐



PROFESSIONAL APPOINTMENT AND EDUCATION

- 2022-now ● **Postdoctoral Fellow**, University of Pennsylvania
Advisor: Dr. Corlett W. Wood
- 2017-2022 ● **Ph.D.**, Ecology and Evolutionary Biology, Yale University
Advisor: Dr. Alvaro Sanchez
- 2015-2017 ● **M.S.**, Ecology and Evolutionary Biology, National Taiwan University
Advisor: Dr. Sheng-Feng Shen
- 2011-2015 ● **B.S.**, Life Science, National Taiwan University
Presidential and Dean's Award (ranking top 5% in the class) GPA: 4.1/4.3



PUBLICATIONS

* these authors contributed equally

- 2023 ● Emergent coexistence in multispecies microbial communities
[Science](#)
Chang-Yu Chang, Djordje Bajic, Sylvie Estrela, Jean Vila, Alvaro Sanchez
- 2022 ● Top-down and bottom-up cohesiveness in microbial community coalescence
[PNAS](#)
Juan Diaz-Colunga*, Nanxi Lu*, Alicia Sanchez-Gorostiaga*, Chang-Yu Chang, Helen Cai, Joshua Goldford, Mikhail Tikhonov, Alvaro Sanchez
- 2022 ● Functional attractors in microbial community assembly
[Cell Systems](#)
Sylvie Estrela, Jean C C Vila, Nanxi Lu, Djordje Bajic, Maria Rebolleda-Gomez, Chang-Yu Chang, Joshua E. Goldford, Alicia Sanchez-Gorostiaga, Alvaro Sanchez
- 2021 ● Engineering complex communities by directed evolution
[Nature Ecology & Evolution](#)
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
- 2021 ● Directed Evolution of Microbial Communities
[Annual Review of Biophysics](#)
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
[Evolution](#)
Chang-Yu Chang*, Melisa L Osborne*, Djordje Bajic, Alvaro Sanchez.
- 2018 ● Ecological effects of cellular computing in microbial populations
[Natural Computing](#)
Maia Baskerville*, Arielle Biro*, Mike Blazanin*, Chang-Yu Chang*, Amelia Hallworth*, Nicole Sonner*, Jean C C Vila*, Alvaro Sanchez



CONTACT INFO

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For more information, please
contact me via email.

This resume was made with the
R package [pagedown](#).

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

Last updated on 2023-10-26.

GRANTS, FELLOWSHIPS, AND AWARDS

- 2022-2024 ● Data Driven Discovery Postdoctoral Fellow (\$27,500)
University of Pennsylvania
- 2017-2020 ● Government Fellowship for Oversea Study (\$126,000)
Taiwan Ministry of Education




TEACHING FELLOW EXPERIENCE

- 2020 ● BIOL104: Ecology & Evolutionary Biology, Yale University
- 2019 ● E&EB729: Microbial Ecology and Evolution, Yale University
- 2019 ● PBoC2019: Physical Biology of the Cell course, Marine Biological Laboratory
- 2019 ● EEB250/550: Biology Of Terrestrial Arthropods, Yale University
- 2019 ● EEB251L/551L: Laboratory for Biology Of Terrestrial Arthropods, Yale University
- 2019 ● EEB223L/523L: Laboratory for Evolution & Functional Traits, Yale University
- 2016 ● LS3022: Biostatistics, National Taiwan University
- 2015 ● LS1019: General Botany Lab, National Taiwan University

INVITED SEMINARS

- 2023 Sep ● Institute of Ecology and Evolutionary Biology, National Taiwan University
- 2023 Sep ● Biodiversity Research Center, Academia Sinica
- 2021 Nov ● Princeton University. Lab-invited seminar
- 2021 Nov ● University of Pennsylvania. Lab-invited seminar
- 2021 Jan ● Workshop on Limits to Diversity Assembly, ICTP
- 2020 Oct ● Microbial Sciences Institute SMAL talks, Yale University

CONTRIBUTED PRESENTATIONS

- 2023 Jun ● Evolution 2023. Contributed talk
 Albuquerque, NM
- 2023 Jan ● ASN Asilomar 2023. Contributed talk
Honorable mention postdoc presentation
 Pacific Grove, CA
- 2022 Jun ● Evolution 2022. Contributed talk
 Cleveland, OH

- 2022 Aug ● Connections Across Borders - Microbial Ecology Conference
Travel grant \$250; Yale GSA CTF traint \$750  Mexico City, MX
- 2019 May ● The Graduate Research in Ecology, Behavior, and Evolution Annual Symposium (GREBE). Contributed talk
 New Brunswick, NJ
- 2019 May ● Yale EEB graduate student symposium
Best contributed poster  New Haven, CT
- 2019 Aug ● Microbial Sciences Institute Retreat, Yale University. Contributed poster
 New Haven, CT
- 2018 Aug ● 17th International Symposium on Microbial Ecology (ISME). Contributed poster
 Leipzig, DE
- 2017 Jan ● 18th Congress of Animal Behavior and Ecology. Winner Prize for research and oral presentation
 Chiayi, TW
- 2016 June ● Graduate student symposium, National Taiwan University. Best contributed poster
 Taipei, TW
- 2016 Aug ● 15th Congress of the International Society for Behavioral Ecology (ISBE). Contributed talk
 Exeter, UK



SERVICES





- 2018-2020 ● President, Yale Taiwanese Student Association

Organized recreational and holiday events for Taiwanese students
Facilitated connections among Taiwanese students across universities
- 2019 ● Organizer, Yale EEB Hutchinson speaker

Dr. Dolph Schluter (UBC) invited as the 2019 Hutchinson Speaker
Organized and modulated invited speaker talks, sessions, and meetings



REFERENCES

- Dr. Corlett W. Wood
Postdoc advisor  corlett@sas.upenn.edu
Assistant Professor, University of Pennsylvania
- Dr. Alvaro Sanchez
Ph.D. advisor  alvaro.sanchez@cnb.csic.es
Principal investigator, Centro Nacional de Biotecnologia, Spain
- Dr. Maria Rebolleda-Gomez
Dissertation committee  mrebol1@uci.edu
Assistant Professor, University of California, Irvine
- Dr. David Vasseur
Dissertation committee  david.vasseur@yale.edu
Professor, Yale University