

# CHANG-YU CHANG 張昌祐



## PROFESSIONAL APPOINTMENTS 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



View this [CV online](#)

## CONTACT INFO

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[google scholar](#)

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](https://github.com/Chang-Yu-Chang/cv).*

*Last updated on 2023-08-01.*

## 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

- 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  
 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 Assistant Professor, University of Pennsylvania	📍 <a href="mailto:corlett@sas.upenn.edu">corlett@sas.upenn.edu</a>
Dr. Alvaro Sanchez Ph.D. advisor Principal investigator, Centro Nacional de Biotecnologia, Spain	📍 <a href="mailto:alvaro.sanchez@cnb.csic.es">alvaro.sanchez@cnb.csic.es</a>
Dr. Maria Rebolleda-Gomez Dissertation committee Assistant Professor, University of California, Irvine	📍 <a href="mailto:mrebol1@uci.edu">mrebol1@uci.edu</a>
Dr. David Vasseur Dissertation committee Professor, Yale University	📍 <a href="mailto:david.vasseur@yale.edu">david.vasseur@yale.edu</a>