

JONATHAN DAVID CYBULSKI, Ph.D.

The Smithsonian Tropical Research Institute

“Historical ecologist and biogeochemist interested in human-environment-ecosystem interactions.”

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EDUCATION

Ph.D. Ecology and Biodiversity. The University of Hong Kong, Hong Kong. 2021.

Thesis title: Hong Kong's coral assemblages through time – a paleoecological and geochemical look at human-driven change (Advisor [David Baker](#)). Awarded “Prof. Brian Morton prize for best thesis in Marine Biology”.

M.S. Environmental Science. American University, USA. 2016.

Thesis title: Push-Core Sampling in Micronesia: Using Paleoecological Data to Reconstruct Guam's Coral Reef Community (Advisor [Kiho Kim](#)). GPA: 4.0, Summa Cum Laude.

B.S. Environmental Science, concentration in Surficial Geological Processes. Northeastern University, USA. 2011.

(Capstone Advisor [Malcolm Hill](#)). GPA: 3.8, Summa Cum Laude. Graduate with honors.

PROFESSIONAL APPOINTMENTS

2022 – Present **Early S. Tupper Postdoctoral Fellow.** The Smithsonian Tropical Research Institute, Panamá.
Collaborators: Dr. Aaron O'Dea, Dr. Ashley Sharpe, Prof. Jeremy Jackson

2022 – Present **Postdoctoral Affiliate.** Graduate School of Oceanography. University of Rhode Island, U.S.A.

2022 – Present **Affiliate Scientist.** Max Planck Institute for Chemistry. Mainz, Germany.

2021-2022 **Postdoctoral Fellow.** Swire Institute for Marine Sciences and Stable Isotope Ratio Mass Spectrometry Laboratory. The University of Hong Kong, Hong Kong.

2015-2016 **Researcher.** The Forum for Climate Engineering Assessment, U.S.A.

2010-2016 **Environmental Protection Specialist.** Department of Transportation, The Volpe Center, U.S.A.

2009-2010 **Biological Sampling Technician.** National Oceanic and Atmospheric Association, U.S.A.

PUBLICATIONS

* indicates co-first authorship, # indicates advised student author

18. **Jonathan D. Cybulski**, Nicolas N Duprey, Benoit Thibodeau, Moriaki Yasuhara, Naomi Geeraert, Nicole Leonard, Hubert B Vonhof, Alfredo Martínez-García, David M. Baker. (2023). “Coral carbonate-bound isotopes reveal monsoonal influence on nitrogen sources in Southeastern China's Greater Bay Area from the mid-Holocene until the Anthropocene.” *Marine Pollution Bulletin*, 197, p. 115757. <https://doi.org/10.1016/j.marpolbul.2023.115757>.

17. **Jonathan D. Cybulski**, John Doherty, Carly LaRoche[#], Kelly Donovan Gutkowski[#], Zizhan Luo, Elizabeth J. Malloy, Laurel MacMillan, Laurie Raymundo, Kiho Kim. (2023). “Using coral holes to explore the historical ecology of Guam's coral reefs.” *Coral reefs* 1-7. <https://doi.org/10.1007/s00338-023-02442-z>

16. **Jonathan D. Cybulski**, Kit Sum Leung, Carmen Oi Ning Leung, David M Baker, Terence Kin Wah Lee. (2023). “Isotopic tracing of de novo fatty-acid and sterol biosynthesis using ¹³C compound-specific stable isotope analysis.” *STAR Protocols*. <https://doi.org/10.1016/j.xpro.2023.102506>

15. Mamo, Briony L., **Jonathan D. Cybulski**, Yuanyuan Hong, Paul G. Harnik, Anne Chao, Akira Tsujimoto, Chih-Lin Wei, David M. Baker, and Moriaki Yasuhara. (2023). “Modern biogeography of benthic foraminifera in an urbanized tropical marine ecosystem.” *Geological Society, London, Special Publications* 529, no. 1: SP529-2022. <https://doi.org/10.1144/SP529-2022-17>

14. Robinson, Rebecca S., Sandi M. Smart, **Jonathan D. Cybulski***, Kelton W. McMahon, Basia Marcks, and Catherine Nowakowski. (2023). "Insights from fossil-bound nitrogen isotopes in diatoms, foraminifera, and corals." *Annual Review of Marine Science* 15. 407-430. <https://doi.org/10.1146/annurev-marine-032122-104001>
13. Yasuhara, Moriaki, Huai-Hsuan May Huang, Markus Reuter, Skye Yunshu Tian, **Jonathan D. Cybulski***, Aaron O'Dea, Briony L. Mamo et al. (2022). "Hotspots of Cenozoic tropical marine biodiversity." In *Oceanography and Marine Biology: An Annual Review, Volume 60*, pp. 243-300. <https://doi.org/10.1201/9781003288602-5>
12. Dillon, Erin M., Jaleigh Q. Pier, Jansen A. Smith, Nussaibah B. Raja, Danijela Dimitrijević, Elizabeth L. Austin, **Jonathan D. Cybulski** et al. (2022). "What is conservation paleobiology? Tracking 20 years of research and development." *Frontiers in Ecology and Evolution*. <https://doi.org/10.3389/fevo.2022.1031483>
11. Lüdecke T, Leichter JN, Aldeias V, Bamford MK, Biro D, Braun DR, Capelli C, **Jonathan D. Cybulski**, Duprey NN, Ferreira da Silva MJ, Foreman AD, Habermann JM, Haug GH, Martínez FI, Mathe J, Mulch A, Sigman DM, Vonhof H, Bobe R, Carvalho S and Martínez-García A. (2022). "Carbon, nitrogen, and oxygen stable isotopes in modern tooth enamel: A case study from Gorongosa National Park, central Mozambique." *Frontiers in Ecology and Evolution*, 10:958032. <https://doi.org/10.3389/fevo.2022.958032>.
10. **Jonathan D. Cybulski***, Christina Skinner, Zhongyue Wan, Carmen KM Wong[#], Robert J. Toonen, Michelle R. Gaither, Keryea Soong, Alex SJ Wyatt, and David M. Baker. (2022). "Improving stable isotope assessments of inter-and intra-species variation in coral reef fish trophic strategies." *Ecology and Evolution* 12, no. 9. <https://doi.org/10.1002/ece3.9221>
9. Etienne Mok, Carmen Oi-Ning Leung, Lei Zhou, Martina Mang Leng Lei, Hoi Wing Leung, Man Tong, Tin Lok Wong, Eunice Lau, Irene Oi-Lin Ng, Jin Ding, Jing-Ping Yun, Jun Yu, Hui-lian Zhu, Chi Ho Lin, Dan Lindholm, Kit Sum Leung, **Jonathan D. Cybulski**, David Baker, Stephanie Ma, and Terence Lee. (2022). "Caspase-3-induced activation of SREBP2 drives drug resistance via promotion of cholesterol biosynthesis in hepatocellular carcinoma." *Cancer Research*. <https://doi.org/10.1158/0008-5472.CAN-21-2934>.
8. Hong, Yuanyuan, Moriaki Yasuhara, Hokuto Iwatani, Paul G. Harnik, Anne Chao, **Jonathan D. Cybulski**, Yuan Liu, Yuefei Ruan, Xiangdong Li, and Chih-Lin Wei. (2022). "Benthic ostracod diversity and biogeography in an urbanized seascape." *Marine Micropaleontology*: 102067. <https://doi.org/10.1016/j.marmicro.2021.102067>
7. **Jonathan D. Cybulski**. (2021). *Hong Kong's Coral Assemblages Through Time: A Paleocological and Geochemical Look at Human-driven Change*. Ph.D. Thesis. The University of Hong Kong Libraries.
6. Alexandra Astrid Andersson, Luke Gibson, David M. Baker, **Jonathan D. Cybulski**, Sifeng Wang, Banson Leung, L. M. Chu, Caroline E. Dingle. (2021). "Stable isotope analysis as a tool to detect illegal trade in critically endangered cockatoos." *Animal Conservation*. <https://doi.org/10.1111/acv.12705>
5. Christine Ferrier-Pagès, Stephane Martinez, Renaud Grover, **Jonathan D. Cybulski**, Eli Shemesh, Dan Tchernov. (2021). "Tracing the trophic plasticity of the coral-dinoflagellate symbiosis using amino acid compound-specific stable isotope analysis". *Microorganisms*, 9(1), 182. <https://doi.org/10.3390/microorganisms9010182>
4. **Jonathan D. Cybulski**, Stefan Husa, Nico Duprey, Briony Mamo, Moriaki Yasuhara, Jian-Wen Qiu, David M. Baker. (2020). "Coral reef diversity losses in China's Greater Bay Area were driven by regional stressors." *Science Advances*. Vol 6, Issue 40. <https://doi.org/10.1126/sciadv.abb1046>
3. Duprey, Nicolas; Wang, Tony; Kim, Taihun; **Jonathan D. Cybulski**; Vonhof, Hubert; Crutzen, Paul; Haug, Gerald; Sigman, Daniel; Martínez-García, Alfredo; Baker, David. (2020). "Megacity development and the demise of coastal coral communities: evidence from coral skeleton $\delta^{15}\text{N}$ records in the Pearl River Estuary." *Global Change Biology*. <https://doi.org/10.1111/gcb.14923>
2. LaRoche, Carly, Benjamin Goldstein, **Jonathan D. Cybulski**, Laurie J. Raymundo, Lillian R. Aoki, Kiho Kim. (2018). "A decade of change in *Enhalus acoroides* seagrass meadows in Guam, Mariana Islands." *Marine and Freshwater Research*. 70(2) 246-254. <https://doi.org/10.1071/MF18062>
1. MacAvoy, S. E., Cortese, N., **Jonathan D. Cybulski**, Hohn, A. A. and Macko, S. A. (2017). "Sources of stable isotope variation among stranded Western Atlantic dolphins (*Tursiops truncatus*) in North Carolina." *Marine Mammal Science*, 33: 1224-1234. <https://doi.org/10.1111/mms.12425>

IN REVIEW OR PREPARATION

19. Nicole Smith-Guzmán, Jeny Smid Núñez, **Jonathan D. Cybulski**, Luis Sánchez Herrera. “Exploring biological affiliations and cultural perspectives through dental morphology at Cerro Juan Díaz, Panamá: A preliminary study of the early burials (30–650 CE)”. *American Journal of Biological Anthropology* – *in final review*.
20. **Jonathan D. Cybulski**, Inga Conti-Jerpe, Alison Corley, Jane Wong, Taihun Kim, Shelby McIlroy, David M. Baker. “Coral nutrient partitioning into different molecules shown by bulk and compound-specific isotope analysis of amino and fatty acids”. *Current Biology* - *in preparation*.
21. **Jonathan D. Cybulski**, Nicolas Duprey, Sean Connolly, Alan Foreman, Erin Dillon, Hubert Vonhof, Alfredo Martinez-Garcia, Brigida De Gracia, Aaron O’Dea. “Coral geochemical records as tracers of ecosystem change in the Tropical Eastern Pacific over the late-Holocene”. *Science Advances* - *in preparation*.

PROFESSIONAL PUBLICATIONS

- Raymundo, L.J., B. Goldstein, D. Baker, K. Kim, S. McIlroy, P. Thompson, V. Lapacek, N. Duprey, **Jonathan D. Cybulski**, C. LaRoche, N. Geeraert. (2018). “Atlas of the Nearshore Shallow Benthic Habitats within the Manell-Geus Habitat Focus Area.” *University of Guam Marine Laboratory Technical Report No. 163. Produced for the National Oceanic and Atmospheric Administration*.
- Jonathan D. Cybulski**., Judith L. Rochat, and David R. Read. (2013). “Roadway Departure Warning Indicators: Synthesis of Noise and Bicycle Research.” *No. NPS/NSNS/NRTR—2013/780*.
- Jonathan D. Cybulski**. (2013). “Transportation Infrastructure Resiliency: A Review of Transportation Infrastructure Resiliency in Light of Future Impacts of Climate Change.” *No. DOT-VNTSC-14-02*.
- Zevitas, Christopher D., **Jonathan D. Cybulski**, and Eileen McNeely. (2012). “Evaluating the health benefits of natural sounds: an approach for assessing the environmental impacts of transportation noise.” *INTER-NOISE and NOISE-CON Congress and Conference Proceedings. Vol. 2012. No. 2. Institute of Noise Control Engineering*.
- Petho, k. L., Christopher d. Zevitas, Adam Klauber, and **Jonathan D. Cybulski**. (2011). “Greenhouse Gas Emissions Modeling: A Tool for Federal Facility Decommissioning.” *Proceedings of The Annual International Conference on Soils, Sediments, Water And Energy. Vol. 16. No. 1*.

RESEARCH GRANTS / FELLOWSHIPS

2023	The Paleontological Society Conference Organizer Grant (\$1000 USD)
2022	The Paleontological Society Invited Lecturer Travel Grant (\$400 USD)
2021	Hong Kong Offshore LNG Terminal Project Marine Conservation Enhancement Fund. When was Acropora-coral-habitable environmental quality lost from the Hong Kong's southern waters? Historical ecology approach. CoI. (PI: Dr. M. Yasuhara; \$176,000 USD).
2020	2021 Earl Tupper Postdoctoral Fellowship, Smithsonian Tropical Research Institution. PI (CO-PI: A. O’Dea, A. Shapre, J. Jackson; \$213,000 USD)
2019	Hung Hing Ying Physical Science Foundation grant. Hong Kong: The city that coral built. CoI. (PI: DM Baker; \$4,000 USD)
2019	Hong Kong University Seed Funding grant. Hong Kong: The city built by coral. CoI. (PI: DM. Baker, Co-PIs: J. Pandolfi; \$10,000 USD)
2019	NAPC student travel grant (\$350 USD)
2018	Smithsonian Tropical Research Institution, short-term research fellowship. PI. (Co-PIs: A. O’Dea, J. Jackson; \$4,700 USD)
2018	IsoEcol student travel grant (\$500 USD)
2017 -2020	Swire Scholarship, Academic Ambassador. 7 awarded annually of a pool of 5,000+ postgraduates. (\$102,500 USD)
2017	National Geographic Young Explorers Grant. Lime kilns as an archive for changing biodiversity on coral reefs in SE Asia: from the Qing Dynasty to modern-day Sri Lanka. PI. (CoI: DM. Baker, M. Atha, J. Pandolfi, A. Premaratna; \$5,000 USD).
2017	Swire research and travel grant (\$4,800 USD)

2016 - 2020	Hong Kong PhD Fellowship. ~200 awarded annually to entire Hong Kong graduate applicant pool. (apprx. \$152,000 USD)
2014-2015	American University Graduate Research Grant (\$4,000 USD)
2014	American University Graduate Research Grant: Thesis related coral reef research support for travel to Guam. PI. (\$1,000 USD)
2013	Volpe National Transportation Systems Center: Climate Change Adaptation and Resilience Support for Transportation Practitioners. PI. (Co-PIs: C. Zevitas, K. Petho, A. Klauber; \$30,000 USD)

TEACHING

2023/2024	Lecturer. BIOL 553, ENVR 451. NEO-McGill-STRI Program. McGill University / Panamá.
2021	Invited Lecturer. “Applications in Palaeontology”. Univ. of Portsmouth.
2021	Invited Lecturer. Stable Isotope Ecology. ENVS2001 - “Methods in environmental science.” HKU.
2021	Invited Lecturer. Atmospheric pollution. ENVS2001 - “Methods in environmental science.” HKU.
2021	Lecturer. BASC2001– Essential skills for undergraduates: The Leadership Development Course on Culture, Science and Society (ES4L). Semester 2, winter term. HKU.
2019	Lecturer and lab assistant. Compound-specific Isotope analysis. Isocamp. HKU.
2019	Research and teaching assistant. Historical ecology field course. University of Rykyus, Okinawa, Japan.
2017-2019	Graduate group leader. Field course in BIOL2306 - “Ecology and Evolution.” HKU.
2017	Research and teaching assistant. EMNFT4 – “Rocky Intertidal Ecology field course”. Tsitsikamma National Wildlife Refuge. South Africa. University of Johannesburg and the University of Hong Kong.
2017	Invited Lecturer. National Environmental Policy Act. BIOL4302 – “Environmental impact assessment”. HKU.
2017	Graduate Demonstrator. ENVS2002 - “Environmental data analysis.” HKU.
2016-2019	Graduate Demonstrator. ENVS2001 - “Methods in environmental science.” HKU.
2015 F	Graduate Assistant for AU Scholars Program. GNED-250 “The Marine Environment”. American University.
2015 S	Lead laboratory teaching assistant. ENVS-160 Intro. to Environmental Science. American University.
2014 F	Laboratory teaching assistant. ENVS-150 Sustainable Earth. American University.
2011 F/S	Senior Environmental Science tutor and teaching assistant. Northeastern University.

SEMINARS

SELECT CONFERENCE PRESENTATIONS

* Indicates invited talk

14. **Jonathan D. Cybulski***, Corley, Alison; Conti-Jerpe, Inga; Kim, Taihun, McIlroy, Shelby, Duprey, Nicolas N., Thibodeau, Benoit, Yasuhara, Moriaki, Baker, David M. *Geological Society of America*. 2023. “Tracking nutrient assimilation in coral using stable isotopes of amino and fatty acids: Implications for past, present, and future reefs.”
13. **Jonathan D. Cybulski**, Nicolas Duprey, Sean Connolly, Alan Foreman, Erin Dillon, Hubert Vonhof, Alfredo Martinez-Garcia, Brigida De Gracia, Aaron O’Dea. *XXI International Union for Quaternary Research Congress, Italy*. 2023. “Coral geochemical records as tracers of ecosystem change in the Tropical Eastern Pacific over the late-Holocene.”
12. **Jonathan D. Cybulski**, Nicolas Duprey, Sean Connolly, Alan Foreman, Erin Dillon, Hubert Vonhof, Alfredo Martinez-Garcia, Brigida De Gracia, Aaron O’Dea. *2nd Conservation Paleobiology Symposium, USA*. 2023. “Coral geochemical records track millennial-scale ecosystem change and resilience in the Tropical Eastern Pacific.”
11. **Jonathan D. Cybulski**, Conti-Jerpe, I., Corley, A., Duprey, N., McIlroy, S., Yasuhara, M., Thibodeau, B., Baker, D. *International Coral Reef Symposium, Germany*. 2022. “Improving historical reconstructions with modern analogs: using stable isotopes to track nutrient assimilation into the coral skeleton.”

10. **Jonathan D. Cybulski***, Ms. Leung Kit Sum, David M. Baker. *BECOME: The Second International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems, Hong Kong*. 2022. “Exploring the Possibilities of Stable Isotope Ecology at the Stable Isotope Ratio Mass Spectrometry Laboratory (SIRSMS) at HKU.”
9. **Jonathan D. Cybulski**, Vriko Yu, Nico Duprey, Naomi Geeraert, Benoit Thibodeau, David M. Baker. *3rd Paleontological Virtual Conference*. 2021. “Hong Kong Corals: Case-study on Using the Past to Restore the Future.”
8. **Jonathan D. Cybulski**, Jihane Benbahtane, Brigida De Gracia, Aaron O'Dea. *Conservation Paleobiology Symposium, Bologna, Italy*. 2020. “The Taphonomy of Panama's Pacific Coral Reefs and their Historical Resilience”.
7. **Jonathan D. Cybulski**, Stefan Husa, Nicolas Duprey, Briony Mamo, Vriko Yu, Toby Tsang, Moriaki Yasuhara, David Baker. *North American Paleontological Convention, California, USA*. 2019. “The past, present, and future of Hong Kong corals: hope for future ecosystems found in an unlikely place.”
6. **Jonathan D Cybulski**, Conti-Jerpe Inga, Phillip Thompson, Baker David M. *Fourth Xiamen Symposium on Marine Environmental Sciences, China*. 2019. “Ground truthing historical and paleo nutrient records from hard coral.”
5. **Jonathan D Cybulski**, Conti-Jerpe Inga, Baker David M. *11th International Conference on Stable isotope Ecology, IsoEcol, Chile*. 2018. “Unraveling nutrient assimilation into the coral skeletal organic matrix has implications for historical interpretations.”
4. **Jonathan D Cybulski**, Stefan Husa, Nicolas Duprey, Briony Mamo, Toby Tsang, Moriaki Yasuhara, James Y. Xie, Jian-Wen Qiu, David Baker. *Asia-Pacific Coral Reef Symposium, Philippines*. 2018. “A link to the past: The story of Hong Kong's coral assemblages through time.”
3. **Jonathan D Cybulski**, David M. Baker. *Hainan Coral Reef Symposium. Sanya, Hainan, China*. 2017. “Push-Core Sampling and Other Methodologies for Collecting Paleoecological Data in Hong Kong And Southeast Asia.”
2. **Jonathan D Cybulski**, Carly LaRoche, Kiho Kim. *13th International Coral Reef Symposium (ICRS13). Oahu, Hawai'i*. 2016. “Push-Core Sampling in Micronesia: Using Paleoecological Data to Reconstruct Guam's Coral Reef Community.” Abstract number: 28387.
1. **Jonathan D Cybulski**, Carly LaRoche, Kiho Kim. *8th Annual Association for Environmental Studies and Sciences Conference. Washington, D.C*. 2016. “Push-Core Sampling in Micronesia: Using Paleoecological Data to Reconstruct Guam's Coral Reef Community.”

SELECT INVITED LECTURES AND PANELS

15. Smithsonian Tropical Research Institute. Tupper Symposium. December 2023. Panamá. “Nitrogen stable isotopes reveal tropical Pacific climate-ecology-human interactions through millennia.”
14. Max Planck Institute of Marine Microbiology. Seminar Series. April 2022. Bremen, Germany. “Investigating coral assemblages through a paleoecological and geochemical lens.”
13. The University of Hong Kong, Hong Kong. Biology Graduate Student Association, Departmental Seminar Series. “Exploring the Possibilities of Stable Isotope Ecology at HKU.”
12. The HKU of Science and Technology, Hong Kong. Research Seminar Series. Invited by: Dr. Alex Wyatt. “Hong Kong coral assemblages through time – a paleoecological and geochemical look at human-driven change.”
11. American University, USA. Environmental Science Seminar Series. 2021. Invited by: Dr. Stephen MacAvoy. “Hong Kong coral assemblages through time – a paleoecological and geochemical look at human-driven change.”
9. TedX TinHau, “Countdown”, 2020. Nominated speaker. “How to build your climate fitness”.
<https://www.youtube.com/watch?v=yb03LBA9Q4A>
8. National Geographic's Explorer Classroom, 2020. “Historical Ecology of Corals.”
7. LUI Che Woo Prize for World Civilization – Laureate Public Lecture. Hong Kong, SAR. 2019. Panelist.
6. National Geographic Society. Keynote at Grant Seminar. Hong Kong, SAR. 2019. “Understanding Hong Kong corals through time: Getting to the ‘Core’ of the problem.”
5. Smithsonian Tropical Research Institute, Panama 2019. “Link to the past: Hong Kong's coral assemblages through time.”
4. National Geographic Asian Explorer Festival, Hong Kong 2018. “3-minute research story pitch”.
3. Oceanswell. Colombo, Sri Lanka. 2018. “A field guide for your field research – how to plan a successful expedition.”
2. National Geographic Society. Keynote at Grant Seminar. Colombo, Sri Lanka. 2018. “A link to the past: using paleoecology to tell the story of ecosystems through time.”
1. Hong Kong Maritime Museum. Hong Kong. 2016. “Looking to the Past for Answers: Using Paleoecology to tell the story of Hong Kong Corals.” Invited guest for “Past, Present, and Future of Hong Kong's Coral Reefs” lecture series.

MENTORSHIP/TRAINING

Graduate Student Mentorship and Training

2023-pres	Hannah Rempel, Ph.D. Student, Univ. Texas , Compound-specific isotope geochemistry.
2023-pres	Paige Gardner, Masters Student, STRI , Fish otolith geochemistry.
2023-pres	Teresa Peil, Masters Student, Univ. of Rostock , Isotope geochemistry of Lucinid clams.
2022-pres	Natasha Hinojosa, Ph.D. Student, USCS , Biogeochemistry of reef fish.
2021-pres	Brinna Barlow, Ph.D. Student, HKU , Forest isotope ecology and Bayesian modelling in R.
2021-pres	Xiaoyi Zeng, Ph.D. Student, HKU , Plant isotope ecology and forest decomposers.
2020-2023	Allison Corley, Ph.D. Student, HKU , Isotope geochemistry and coral biology.
2021-2022	Kevin Goeghan, Ph.D. Student, HKU , Rocky shore isotope ecology and Bayesian modelling in R.
2021	Jake Dytnersky, Ph.D. Student, HKU , Isotope ecology of sea urchins and Bayesian modelling in R.
2021	Amy Tung Zhao, Ph.D. Student, CUHK , Denitrifier method of ocean water.
2022	Adrian Wong, Ph.D. Student, HKU , Rocky shore isotope ecology and Bayesian modelling in R.
2019	Jihane Benbahtane, Masters Student, McGill , Historical ecology of Panamanian reefs.
2015-2016	John Doherty, Masters Student, American University , Paleoecology.

Undergraduate Student Mentorship (* = indicates final year project or senior thesis)

2023-pres	Lucía Morales* , STRI, Stable Isotope geochemistry and historical ecology.
2023-pres	Rodnyel Arosemena, STRI , Compound-specific isotope geochemistry.
2023	Juan-Pablo Peña, Univ. Texas , Compound-specific isotope geochemistry.
2022	Nicole Yuet Fung Ling, HKU , Carbon resource partitioning in butterflies.
2021	Bonnie Chun Tung Lee, HKU , Isotope biogeochemistry and data analysis in R.
2021	Jolene Wong* , HKU, Stable isotope processing and analysis.
2019	Diluksha Soysa, Sri Lanka , Field research and methods.
2019	Hasi Vanitige, Sri Lanka , Field research and methods.
2019	Thisara Srimal, Sri Lanka , Field research and methods, scientific SCUBA diving.
2019	Jaime Wong, HKU , C-N-S isotopes in fish of Dongsha Atoll, summer internship.
2018	Merry Chuck Yee Chan, HKU , Historical ecology of Hong Kong mollusks, summer internship.
2017-2019	Carmen Ka Man Wong* , HKU, “Using SIA to delineate trophic niches of corals in Dongsha Atoll”.
2017	Chan Cheuk Yee* , HKU, ArcGIS.
2016	Ben Goldstein, American Univ. Field work and ArcGIS.
2015-2016	Kelly Gutkowski, American Univ. Historical ecology of coral reefs.
2014-2016	Carly LaRoche, American Univ. Historical ecology of coral reefs and seagrass meadows.

PUBLIC OUTREACH (See <https://www.jonathancybulski.com/media> for full list)

2023/2024	National Geographic X Swire Trust. Exhibition at Pacific Place “Our City Our Sea.”
2023	Coventry High School. Invited motivational speaker.
2021	National Geographic. “Planet Possible” worldwide live television event.
2020	OceanSwell. “Tiny-desk Adventures” educational video and live Q&A.
2019	National Geographic Society. Online community lecture. “How to prepare for your next expedition”
2019	Hong Kong Environmental Film Festival. Panel mediator for public viewing of “Chasing Coral.”
2019-pres	Smithsonian Tropical Research Institute. Panama. Invited lectures to public visitors/donors.
2019	Mrs. Smiths 3 rd grade elementary class, Rhode Island. Repeated “pen pal” outreach.
2018-2020	Invited lecture for 4 th and 5 th grade students in the Coventry Public School system.
2017	GE2017-15 Reef Encounters at the Underwater Garden Hoi Ha Wan (海下灣浮潛生態遊), Hong Kong.
2017	Hong Kong Island School Workshop on Marine Ecology, Hong Kong.
2016	Hong Kong Maritime Museum. Hong Kong. Public presentation and coral exhibit.
2016	Junior Science Institute (JSI) Ocean Odyssey Workshop. Swire Institute of Marine Science, Hong Kong.

PROFESSIONAL DEVELOPMENT

Smithsonian Institute	First responder and CPR training	August 2023
Hong Kong University	Hong Kong IsoCamp graduate	July 2019
Hong Kong University	Flow-injection Analysis training	May 2019
Smithsonian Institute	Scientific Diver Certification	January 2019
PADI	Rescue Diver	December 2018
Oxford University Short Course	Bayesian statistical modeling for ^{14}C dating	March 2018
Stable Isotope Ecology	Unv. Utah IsoCamp graduate	June 2017
PADI	Open Water/Advanced SCUBA Certification	August 2015
Institute for Environmental Education	Field Soil Sampling Training	February 2014
National Transit Institute	Managing the Environmental Review Process	August 2013
OSHA Ten Hour Construction Safety Training	Occupational Safety and Health Administration	September 2012
Wetland Permitting	National Association of Environmental Planners	September 2012
FAA Fall Safety Level II Certified Climber	FAA Facility, Hanscom, MA.	May 2011
Northeastern University	Residential Life Diversity Training	Annual, 2008-11

LEADERSHIP POSITIONS

2023	Co-Chair of the Conservation Paleobiology session at the 4 th Paleontological Virtual Congress
2020 - 2022	Inaugural Co-Chair of the Student Panel, Conservation Paleobiology Network.
2018 - 2020	Inaugural elected President, the University of Hong Kong Biology Graduate Student Association.
2015 - 2016	Elected Graduate Class President, American University College of Arts and Science.
2009-2011	Senior Resident Assistant for a 200+ student dormitory, Northeastern University

SELECTED HONORS AND AWARDS

2021	Professor Brian Morton Postgraduate Prize in Marine Biology - best Thesis. The University of Hong Kong.
2017	National Geographic Explorer. National Geographic Society.
2016	Founders Excellence Award for Most Distinguished Student Leader. American University.

SELECTED OVERSEAS/FIELD EXPERIENCE

2023	Week-long expedition to Cuajiniquil, Costa Rica, marine and mangrove bivalve sampling.
2022	Week-long expedition to Las Perlas, Panamá, underwater paleontological coring (6 cores) / living aboard.
2018-2019	Conducted two field excursions to Sri Lanka for SCUBA and field collections
2019	3 months living, and regularly conducting field research and SCUBA (25+ dives) in Panamá
2019	2-week SCUBA and paleontological field course in Okinawa, Japan
2017	2-week field course in rural Tsitsikamma National Wildlife Refuge, South Africa
2017	1-month SCUBA/field excursion to Taiwanese owned Donsgha Atoll
2016-2021	Living, and regularly conducting field research and SCUBA (200+ dives) in Hong Kong, China, SAR
2016	Week-long expedition to Hong Kong, underwater paleontological coring (12 cores) / living aboard
2014	2+ months of field research in Guam, and surrounding Marianas Island Chain
2011-2014	Several multiple-week backwoods expeditions in USA National Parks conducting environmental research

SOCIETIES

2023 – present Society of American Archaeology
2022 – present Geological Society of America
2022 – present Association for the Science of Limnology and Oceanography
2022 – present Paleontological Society
2020 – present Conservation Paleobiology Network
2017 – present Royal Geographic Society
2017 – present National Geographic Society
2014 – present International Coral Reef Society

JOURNAL REVIEWS

Environmental Archaeology (1), Paleoceanography and Paleoclimatology (2), Ecography (2), Frontiers in Marine Science (1), Frontiers in Ecology and Evolution (1), Global Change biology (2), Marine Pollution Bulletin (2), National Geographic Expert Reviewer (2), Smithsonian Expert Reviewer (2), PeerJ (2), Science Advances (2).

**Professional references provided upon request.*