
CURRICULUM VITAE

DR. CHONG CHEN, MA DPHIL (OXON.)

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ADDRESS

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PERSONAL STATEMENT

Biologist with research foci on invertebrate animals and the deep sea, especially chemosynthesis-based, ecosystems. Key interests include adaptation, evolution, biogeography, ecology, biodiversity, taxonomy and systematics. Trained and skilled in both morphological (e.g., dissection, histology, electron microscopy) and molecular (e.g., barcoding, phylogenetics, population genetics) methodologies. Constantly seeking and developing new techniques required to answer scientific questions, recently using synchrotron CT to investigate adaptation to hydrothermal vents. Experienced malacologist with expertise especially in the taxonomy of gastropods. Able to disseminate results timely in peer-reviewed literature with a proven track record for publishing scientific papers. Always actively collaborating internationally and constantly seeks for new collaborations. Extensive records in field expedition and exploration at sea, logging over 300 days on-board over 20 voyages, using manned submersibles, ROV, AUV, CTD, among other equipment. Highly experienced in both talk and poster presentations at conferences and symposiums. Involved in and motivated by public engagement and outreach events. Adept international traveller. Quadrilingual.

PROFESSIONAL APPOINTMENTS

2020/04 ~ Present	Research Scientist with Tenure Japan Agency for Marine-Earth Science and Technology (JAMSTEC) Yokosuka Headquarters SUGAR Program, X-STAR
2018/04 ~ 2020/03	Research Scientist (Tenure-Track) Japan Agency for Marine-Earth Science and Technology (JAMSTEC) Yokosuka Headquarters SUGAR Program, X-STAR
2018/07 ~ 2019/03	Adjunct Lecturer Yokohama National University, Japan Graduate School of Environment and Information Sciences
2015/05 ~ 2018/03	International Postdoctoral Fellow (= Young Research Fellow) Japan Agency for Marine-Earth Science and Technology (JAMSTEC) Yokosuka Headquarters Department of Subsurface Geobiological Analysis and Research
2014/09 ~ Present	Visiting Research Fellow Queen's University Belfast, Northern Ireland, United Kingdom Queen's University Marine Laboratory, School of Biological Sciences
2017/04 ~ 2017/09 &	Adjunct Lecturer

2018/04 ~ 2018/09 **Sophia University, Tokyo, Japan**
Faculty of Science and Technology
2015/07 ~ 2016/06 **Research Associate**
University of Oxford, England, United Kingdom
Ocean Research & Conservation Group, Department of Zoology

EDUCATION

2015/04 **DPhil** **Doctor of Philosophy in Zoology (Oxon.)**
Graduated **University of Oxford (Merton College), England, United Kingdom**
British Antarctic Survey, Cambridge, England, United Kingdom
Thesis: “Systematics, ecology, and evolution of hydrothermal vent endemic
peltospirids (Mollusca: Gastropoda) from the Indian and Southern oceans”
Supervisor: *Prof. Alex D. Rogers (University of Oxford)*
Co-supervisors: *Dr. Jonathan T. Copley (University of Southampton)*
Dr. Katrin Linse (British Antarctic Survey, Cambridge)
Dr. Julia D. Sigwart (Queen’s University Belfast)
Advisors: *Dr. Sammy De Grave (University of Oxford)*
Dr. Martin R. Speight (University of Oxford)
Prof. Peter W.H. Holland (University of Oxford)

2015/04 **MA** **Master of Arts in Biological Sciences (Oxon.)**
Incepted **University of Oxford (St Anne’s College), England, United Kingdom**
Incepted from BA (Hons.) following the attainment of DPhil.

2011/07 **BA** **Bachelor of Arts (Hons.) in Biological Sciences (Oxon.)**
Graduated **University of Oxford (St Anne’s College), England, United Kingdom**
Thesis: “The effect of water pollution on community structure and size distribution
of rocky shore organisms in Hong Kong”
Main supervisor: *Dr. Martin R. Speight (University of Oxford)*
Co-supervisors: *Prof. Gray A. Williams (University of Hong Kong)*
Prof. Kenneth M.Y. Leung (University of Hong Kong)

2008/05 **Diploma** **International Baccalaureate Diploma Programme**
Graduated **Shatin College, New Territories, Hong Kong SAR**
English School Foundation, Hong Kong SAR

OTHER AFFILIATIONS

2019/02 ~ Present **Specialist Member**
The IUCN Mollusc Specialist Group
IUCN Red Listing of hydrothermal vent molluscs

2017/04 ~ Present **Radiation User**
SPring-8 Synchrotron Radiation Facility
RIKEN and Japan Synchrotron Radiation Research Institute (JASRI)

2016/10 ~ Present **Affiliate**
Lawrence Berkeley National Laboratory, California, U.S.A.
Advanced Light Source

2014/01~2014/03 **Research Student**
and **Japan Agency for Marine-Earth Science and Technology (JAMSTEC)**
2013/05~2013/07 Yokosuka Headquarters
Institute of Biogeosciences

PEER-REVIEWED PUBLICATIONS

65. Sun J[#] / **Chen C[#]** / Miyamoto N[#], Li R, Sigwart JD, Xu T, Sun Y, Wong WC, Ip JCH, Zhang W, Lan Y, Bissessur D, Watsuji T-o, Watanabe HK, Takaki Y, Ikeo K, Fujii N, Yoshitake K, Qiu J-W, Takai K*, Qian P-Y* (*In press*). The Scaly-foot Snail genome and implications for the origins of biomineralised armour. *Nature Communications*, **11**. DOI: 10.1038/s41467-020-15522-3

64. **Chen C***, Linse K (*In press*). From wood to vent: first cocculinid limpet associated with hydrothermal activity discovered in the Weddell Sea. *Antarctic Science*, First View. DOI: 10.1017/S095410202000022X
63. Okanishi M*, Kato M, Watanabe HK, **Chen C**, Fujita T (*In press*). Enigmatic ophiuroids genus *Ophiambix* (Echinodermata: Ophiuroidea) from Japanese waters with descriptions of two new species. *Raffles Bulletin of Zoology*.
62. Sun J# / Zhou Y#, **Chen C**, Kwan YH, Sun Y, Wang X, Yang L, Zhang R, Wei T, Yang Y, Qu L, Sun C*, Qian P-Y* (2020). Nearest vent, dearest friend: Biodiversity of Tiancheng vent field reveals cross-ridge similarities in the Indian Ocean. *Royal Society Open Science*, 7: 200110. DOI: 10.1098/rsos.200110
61. Zhu F-C, Sun J, Yan G-Y, Huang J-M, **Chen C**, He L-S* (2020). Insights into the strategy of micro-environmental adaptation: Transcriptomic analysis of two alvinocaridid shrimps at a hydrothermal vent. *PLoS ONE*, 15(1): e0227587. DOI: 10.1371/journal.pone.0227587
60. Linse K*, Copley JT, Connelly DP, Larter RD, Pearce DA, Polunin NVC, **Chen C**, Clarke A, Glover A, Graham AGC, Huvenne VAI, Marsh L, Reid WDK, Roterman CN, Sweeting CJ, Zwirgmaier K, Tyler PA (2019). Fauna of the Kemp Caldera and its upper bathyal hydrothermal vents (South Sandwich Arc, Antarctica). *Royal Society Open Science*, 6(11): 191501. DOI: 10.1098/rsos.191501
59. Lin T-H#* / **Chen C***, Watanabe HK, Kawagucci S, Yamamoto H, Akamatsu T (2019). Using soundscape to assess deep-sea benthic ecosystems. *Trends in Ecology & Evolution*, 34(12): 1066-1069. DOI: 10.1016/j.tree.2019.09.006
58. Zhou Y, **Chen C**, Watanabe HK, Zhang R, Wang C* (2019). *Amphisamytha* (Annelida: Ampharetidae) from Indian Ocean hydrothermal vents: biogeographic implications. *Deep-Sea Research Part I: Oceanographic Research Papers*, 154: 103148. DOI: 10.1016/j.dsr.2019.103148
57. Lan Y, Sun J, Zhang W, Xu T, Zhang Y, **Chen C**, Feng D, Wang H, Tao J, Qiu J-W, Qian P-Y* (2019). Host-symbiont interactions in deep-sea chemosymbiotic vesicomid clams: insights from transcriptome sequencing. *Frontiers in Marine Science*, 6: 680. DOI: 10.3389/fmars.2019.00680
56. **Chen C***, Watanabe HK, Nagai Y, Toyofuku T, Xu T, Sun J, Qiu J-W, Sasaki T (2019). Complex factors shape phenotypic variation in deep-sea limpets. *Biology Letters*, 15(10): 20190504. DOI: 10.1098/rsbl.2019.0504
55. Linse K# / Nye V#, Copley JT, **Chen C*** (2019). On the systematics and ecology of two new species of *Provanna* (Abyssochrysoidea: Provannidae) from deep-sea hydrothermal vents in the Caribbean Sea and Southern Ocean. *Journal of Molluscan Studies*, Early View. DOI: 10.1093/mollus/eyz024
54. Okada S*, **Chen C**, Watsuji T-o, Nishizawa M, Suzuki Y, Sano Y, Bissessur D, Deguchi S, Takai K (2019). The making of natural iron sulfide nanoparticles in a hot vent snail. *Proceedings of the National Academy of Sciences, USA*, 116(41): 20376-20381. DOI: 10.1073/pnas.1908533116
53. Sun J, Liu Y, Xu T, Zhang Y, **Chen C**, Qiu J-W, Qian P-Y* (2019). The mitochondrial genome of the deep-sea limpet *Bathyacmaea nipponica* (Patellogastropoda: Pectinodontidae). *Mitochondrial DNA Part B: Resources*, 4(2): 3175-3176. DOI: 10.1080/23802359.2019.1668732
52. Zhou K, Zhang R, Sun J, Zhang W, Tian R, **Chen C**, Kawagucci S, Xu Y* (2019). Potential interactions between clade SUP05 sulfur-oxidizing bacteria and phages in hydrothermal vent sponges. *Applied and Environmental Microbiology*, 85(22): e00992-19. DOI: 10.1128/AEM.00992-19
51. **Chen C***, Linse K (2019). A new trochoidean gastropod (Vetigastropoda: Skeneidae) discovered from deep-sea hydrothermal vents in the Southern Ocean. *Marine Biodiversity*, 49(6): 2775-2785. DOI: 10.1007/s12526-019-01005-2
50. Chapman ASA*, Beaulieu SE, Colaço A, Gebruk AV, Hilario A, Kihara TC, Ramirez-Llodra E, Sarrazin J, Tunnicliffe V, Amon DJ, Baker M, Boschen-Rose RE, **Chen C**, Cooper IJ, Copley JT, Corbari L, Cordes EE, Cuvelier D, Duperron S, Du Preez C, Gollner S, Horton T, Hourdez S, Krylova EM, Linse K, LokaBharathi PA, Marsh L, Matabos M, Mills SW, Mullineaux LS, Rapp HT, Reid WDK, Rybakova (Goroslavskaya) E, Thomas TRA, Southgate SJ, Stöhr S, Turner PJ, Watanabe HK, Yasuhara M, Bates AE (2019). sFDvent: a global functional trait database for deep-sea hydrothermal vent fauna. *Global Ecology and Biogeography*, 28: 1538-1551. DOI: 10.1111/geb.12975
49. Sigwart JD, **Chen C***, Thomas E, Allcock AL, Böhm M, Seddon M. (2019). Red Listing can protect deep-sea biodiversity. *Nature Ecology & Evolution*, 3: 1134. DOI: 10.1038/s41559-019-0930-2
48. Linse K*, Roterman CN, **Chen C** (2019). A new vent limpet in the genus *Lepetodrilus* (Gastropoda: Lepetodrilidae) from Southern Ocean hydrothermal vent fields showing high phenotypic plasticity. *Frontiers in Marine Science*, 6: 381. DOI: 10.3389/fmars.2019.00381
47. **Chen C***, Watanabe HK, Sasaki T (2019). Four new deep-sea provannid snails (Gastropoda: Abyssochrysoidea) discovered from hydrocarbon seep and hydrothermal vents in Japan. *Royal Society Open Science*, 6(7): 190393. DOI: 10.1098/rsos.190393
46. Jimi N*, **Chen C**, Kajihara H (2019). New records of the hydrothermal-vent-endemic polychaete *Archinome jasoni* (Annelida: Amphinomidae) from the northwestern Pacific. *Check List*, 15(3): 523-526.

DOI: 10.15560/15.3.523

45. Nakajima R^{**} / **Chen C[#]**, Iwase R, Yamamoto H, Fujikura K (2019). Clams after storms: the impact of multiple disturbances on seep vesicomylid clams revealed by long-term monitoring. *Marine Biology*, 166: 35. DOI: 10.1007/s00227-019-3484-6
44. Sigwart JD^{*}, **Chen C** (2018). A new deep water chiton (Mollusca: Polyplacophora) from hydrothermal vent ecosystems in the Okinawa Trough, Japan. *Zootaxa*, 4531(3): 430-436. DOI: 10.11646/zootaxa.4531.3.7
43. Nagai Y^{*}, Uematsu K, **Chen C**, Wani R, Tyszkla J, Toyofuku T (2018). Weaving of biomineralization framework in rotaliid foraminifera: Implications for paleoceanographic proxies. *Biogeosciences*, 15: 6773-6789. DOI: 10.5194/10.5194/bg-15-6773-2018
42. **Chen C^{*}**, Linse K, Uematsu K, Sigwart JD (2018). Cryptic niche switching in a chemosymbiotic gastropod. *Proceedings of the Royal Society B: Biological Sciences*, 285(1882): 20181099. DOI: 10.1098/rspb.2018.1099
41. Zhang W, Watanabe HK, Ding W, Lan Y, Tian R-M, Sun J, **Chen C**, Cai L, Li Y, Oguri K, Toyofuku T, Kitazato H, Drazen JC, Bartlett D, Qian P-Y^{*} (2018). Gut microbial divergence between two populations of the hadal amphipod *Hirondellea gigas*. *Applied and Environmental Microbiology*, 85(1): e02032-18. DOI: 10.1128/AEM.02032-18
40. Sigwart JD^{*}, **Chen C** (2018). Comparative oxygen consumption of gastropod holobionts from deep-sea hydrothermal vents in the Indian Ocean. *The Biological Bulletin*, 235(2): 102-112. DOI: 10.1086/699326
39. Feng D^{*}, Qiu J-W, Hu Y, Peckmann J, Guan H, Tong H, **Chen C**, Chen J, Gong S, Li N, Chen D (2018). Cold seep systems in the South China Sea: An overview. *Journal of Asian Earth Sciences*, 168: 3-16. DOI: 10.1016/j.jseaes.2018.09.021
38. Ogura T, Watanabe HK^{*}, **Chen C**, Sasaki T, Kojima S, Ishibashi J-i, Fujikura K (2018). Population history of deep-sea vent and seep *Provanna* snails (Mollusca: Aabysochrysoidea) in the northwestern Pacific. *PeerJ*, 6: e5673. DOI: 10.7717/peerj.5673
37. Glover AG^{*}, Wiklund H, **Chen C**, Dahlgren TG (2018). Managing a sustainable deep-sea 'blue economy' requires knowledge of what actually lives there. *eLife*, 7: e41319. DOI: 10.7554/eLife.41319
36. Sasaki T^{*}, Maekawa Y, Takeda Y, Atsushiba M, **Chen C**, Noshita K, Uesugi K, Hoshino M (2018). 3D visualization of calcified and non-calcified molluscan tissues using computed tomography. In: Endo K, Kogure T, Nagasawa H (eds.) *Biomineralization: From Molecular and Nano-structural Analyses to Environmental Science*, pp. 83-93. Springer, Singapore. DOI: 10.1007/978-981-13-1002-7_9
35. Xu T, Sun J, Watanabe HK, **Chen C**, Nakamura M, Ji R, Feng D, Lv J, Wang S, Bao Z, Qian P-Y, Qiu J-W^{*} (2018). Population genetic structure of the deep-sea mussel *Bathymodiolus platifrons* (Bivalvia: Mytilidae) in the Northwest Pacific. *Evolutionary Applications*, Early View. DOI: 10.1111/eva.12696
34. **Chen C^{*}**, Okutani T, Watanabe HK, Kojima S (2018). The first cuspidariid bivalve associated with hydrothermal vents discovered from the Southern Mariana Trough. *Venus (Journal of the Malacological Society of Japan)*, 76: 39-44. DOI: 10.18941/venus.76.1-4_39
33. **Chen C^{*}**, Okutani T, Liang Q, Qiu J-W (2018). A noteworthy new species of the family Vesicomylidae from the South China Sea (Bivalvia: Glossoidea). *Venus (Journal of the Malacological Society of Japan)*, 76: 29-37. DOI: 10.18941/venus.76.1-4_29
32. Lan Y, Sun J, Xu T, **Chen C**, Tian R, Qiu J-W, Qian P-Y^{*} (2018). *De novo* transcriptome assembly and positive selection analysis of an individual deep-sea fish. *BMC Genomics*, 19: 394. DOI: 10.1186/s12864-018-4720-z
31. Watanabe HK^{*}, **Chen C**, Marie DP, Takai K, Fujikura K, Chan BKK^{*} (2018). Phylogeography of hydrothermal vent stalked barnacles: a new species fills a gap in the Indian Ocean 'dispersal corridor' hypothesis. *Royal Society Open Science*, 5(4): 172408. DOI: 10.1098/rsos.172408
30. Zhang Y, Sun J, Rouse GW, Wiklund H, Pleijel F, Watanabe HK, **Chen C**, Qian P-Y, Qiu J-W^{*} (2018). Phylogeny, evolution and mitochondrial gene order rearrangement in scale worms (Aphroditiformia, Annelida): Insights from low-coverage genome sequencing. *Molecular Phylogenetics and Evolution*, 125: 220-231. DOI: 10.1016/j.ympev.2018.04.002
29. **Chen C^{*}**, Marsh L, Copley JT (2018). Is it sex in chains? Potential mating stacks in deep-sea hydrothermal vent snails. *Plankton and Benthos Research*, 13(1): 25-27. DOI: 10.3800/pbr.13.25
28. Komai T^{*}, **Chen C**, Watanabe HK (2018). Two new species of the crangonid genus *Metacrangon* Zarenkov, 1965 (Crustacea: Decapoda: Caridea) from the Okinawa Trough, Japan. *Zootaxa*, 4410(1): 97-112. DOI: 10.11646/zootaxa.4410.1.5
27. Zhang Y, **Chen C**, Qiu J-W^{*} (2018). Sexually dimorphic scale worms (Annelida: Polynoidae) from deep-sea hydrothermal vents in the Okinawa Trough: Two new species and two new sex morphs. *Frontiers in Marine Science*, 5: 112. DOI: 10.3389/fmars.2018.00112
26. Houart R^{*}, Moe C, **Chen C** (2017). Description of three new muricids (Gastropoda: Muricidae:

- Muricinae) from the Philippines and Fiji. *The Nautilus*, **131**(4): 207-216.
25. **Chen C***, Watanabe HK, Araya JF (2017). First columbellid species (Gastropoda: Buccinoidea) from deep-sea hydrothermal vents discovered in Okinawa Trough, Japan. *Zootaxa*, 4363(4): 592-596. DOI: 10.11646/zootaxa.4363.4.13
 24. Miyazaki J, Kawagucci S, Makabe A, Takahashi A, Kitada K, Torimoto J, Matsui Y, Tasumi E, Shibuya T, Nakamura K, Horai S, Sato S, Ishibashi J, Kanzaki H, Nakagawa S, Hirai M, Takaki Y, Okino K, Watanabe HK, Kumagai H, **Chen C*** (2017). Deepest and hottest hydrothermal activity in the Okinawa Trough: Yokosuka site at Yaeyama knoll. *Royal Society Open Science*, **4**: 171570. DOI: 10.1098/rsos.171570
 23. **Chen C***, Chan T-Y, Chan BKK (2017). Molluscan diversity in shallow water hydrothermal vents off Kueishan Island, Taiwan. *Marine Biodiversity*, **48**(1): 709-714. DOI: 10.1007/s12526-017-0804-2
 22. Heywood JL*, **Chen C**, Pearce DA, Linse K (2017). Bacterial communities associated with the Southern Ocean vent gastropod, *Gigantopelta chessoia*: indication of intergenerational, horizontal symbiont transfer. *Polar Biology*, **40**(11): 2335-2342. DOI: 10.1007/s00300-017-2148-6
 21. **Chen C***, Zhou Y, Wang C, Copley JT (2017). Two new hot-vent peltospirid snails (Gastropoda: Neomphalina) from Longqi hydrothermal field, Southwest Indian Ridge. *Frontiers in Marine Science*, **4**: 392. DOI: 10.3389/fmars.2017.00392
 20. Miyazaki J, Makabe A, Matsui Y, Ebina N, Tsutsumi S, Ishibashi J, **Chen C**, Kaneko S, Takai K, Kawagucci S* (2017). WHATS-3: An improved flow-through gas-tight fluid sampler for deep-sea geofluid research. *Frontiers in Earth Science*, **5**: 45. DOI: 10.3389/feart.2017.00045
 19. Sigwart JD*, **Chen C** (2017). Life history, patchy distribution, and patchy taxonomy in a shallow-water invertebrate (Mollusca: Polyplacophora: Lepidopleurida). *Marine Biodiversity*, First Online. DOI: 10.1007/s12526-017-0688-1
 18. **Chen C***, Uematsu K, Linse K, Sigwart JD (2017). By more ways than one: Rapid convergence in adaptations to hydrothermal vents shown by 3D anatomical reconstruction of *Gigantopelta* (Mollusca: Neomphalina). *BMC Evolutionary Biology*, **17**: 62. DOI: 10.1186/s12862-017-0917-z
 17. Watsuji T*, Tsubaki R, **Chen C**, Nagai Y, Nakagawa S, Yamamoto M, Nishiura D, Toyofuku T, Takai K (2017). Cultivation mutualism between a deep-sea vent galatheid crab and chemosynthetic epibionts. *Deep-Sea Research Part I: Oceanographic Research Papers*, **127**: 13-20. DOI: 10.1016/j.dsr.2017.04.012
 16. **Chen C***, Watanabe HK, Miyazaki J, Kawagucci S (2017). Unanticipated discovery of two rare gastropod molluscs from recently located hydrothermally influenced areas in the Okinawa Trough. *PeerJ*, **5**: e4121. DOI: 10.7717/peerj.4121
 15. Zhang Y [Yanjie], Sun J, **Chen C**, Watanabe HK, Feng D, Zhang Y [Yu], Chiu JMY, Qian P-Y*, Qiu J-W* (2017). Adaptation and evolution of polynoid scale-worms (Annelida: Polynoidae): insights from transcriptome comparison among two deep-sea and a shallow-water species. *Scientific Reports*, **7**: 46205. DOI: 10.1038/srep46205
 14. Sigwart JD*, **Chen C**, Marsh L (2017). Is mining the seabed bad for mollusks? *The Nautilus*, **131**(1): 43-50.
 13. **Chen C***, Watanabe HK, Ohara Y (2016). A very deep *Provanna* (Gastropoda: Abyssochrysoidea) discovered from the Shinkai Seep Field, Southern Mariana Forearc. *Journal of the Marine Biological Association of the United Kingdom*, DOI: 10.1017/S0025315416001648
 12. Xu T, Sun J, **Chen C**, Qian P-Y, Qiu J-W* (2016). The mitochondrial genome of the deep-sea snail *Provanna* sp. (Gastropoda: Provannidae). *Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis*, **27**(6): 4026-4027. DOI: 10.3109/19401736.2014.1003827
 11. **Chen C***, Ogura T, Hirayama H, Watanabe HK, Miyazaki J, Okutani T (2016). First seep-dwelling *Desbruyeresia* (Gastropoda: Abyssochrysoidea) species discovered from a serpentinite-hosted seep in the southeastern Mariana Forearc. *Molluscan Research*, **36**(4): 277-284. DOI: 10.1080/13235818.2016.1172547
 10. Okumura T*, Ohara Y, Stern RJ, Yamanaka T, Onishi Y, Watanabe H, **Chen C**, Bloomer SH, Pujana I, Sakai S, Ishii T, Takai K (2016). Brucite chimney formation and carbonate alteration at the Shinkai Seep Field, a serpentinite-hosted vent system in the Southern Mariana Forearc. *Geochemistry, Geophysics, Geosystems*, **17**(9): 3775-3796. DOI: 10.1002/2016GC006449
 9. **Chen C***, Linse K, Roterman CN, Copley JT, Rogers AD (2015). A new genus of large hydrothermal vent-endemic gastropod (Neomphalina: Peltospiridae). *Zoological Journal of the Linnean Society*, **175**(2): 319-335. DOI: 10.1111/zoj.12279
 8. **Chen C***, Copley JT, Linse K, Rogers AD (2015). Low connectivity between 'scaly-foot gastropod' (Mollusca: Peltospiridae) populations at hydrothermal vents on the Southwest Indian Ridge and the Central Indian Ridge. *Organisms Diversity and Evolution*, **15**(4): 663-670. DOI: 10.1007/s13127-015-0224-8
 7. Houart R*, Moe CO, **Chen C** (2015). Description of two new species of *Chicomurex* from the Philippine Islands (Gastropoda: Muricidae) with update of the Philippines species and rehabilitation of *Chicomurex gloriosus* (Shikama, 1977). *Venus (Journal of the Malacological Society of Japan)*, **73**(1-2): 1-14. DOI:

10.18941/venus.73.1-2_1

6. **Chen C***, Copley JT, Linse K, Rogers AD, Sigwart J (2015). The heart of a dragon: 3D anatomical reconstruction of the 'scaly-foot gastropod' (Mollusca: Gastropoda: Neomphalina) reveals its extraordinary circulatory system. *Frontiers in Zoology*, **12**:13. DOI: 10.1186/s12983-015-0105-1
5. Nakajima R*, Yamamoto H, Kawagucci S, Takaya Y, Nozaki T, **Chen C**, Fujikura K, Miwa T, Takai K (2015). Post-drilling changes in seabed landscape and megabenthos in a deep-sea hydrothermal system, the Iheya North field, Okinawa Trough. *PLoS ONE*, **10**(4), e0123095. DOI: 10.1371/journal.pone.0123095
4. **Chen C***, Linse K, Copley JT, Rogers AD (2015). The 'scaly-foot gastropod': a new genus and species of hydrothermal vent-endemic gastropod (Neomphalina: Peltospiridae) from the Indian Ocean. *Journal of Molluscan Studies*, **81**(3): 322-334. DOI: 10.1093/mollus/eyv013
3. Nakamura M*, **Chen C**, Mitarai S (2015). Insights into life-history traits of *Munidopsis* spp. (Anomura: Munidopsidae) from hydrothermal vent fields in the Okinawa Trough, in comparison with the existing data. *Deep-Sea Research Part I: Oceanographic Research Papers*, **100**: 48-53. DOI: 10.1016/j.dsr.2015.02.007
2. **Chen C***, Copley JT, Linse K, Rogers AD, Sigwart J (2015). How the mollusc got its scales: convergent evolution of the molluscan scleritome. *Biological Journal of the Linnean Society*, **114**: 949-954. DOI: 10.1111/bij.12462
1. Houart R*, Moe CO, **Chen C** (2014). *Chicourex lani* sp. nov. (Gastropoda: Muricidae), a new species and its intricate history. *Bulletin of Malacology, Taiwan*, **37**: 1-14.

= Co-first Authors; * = Corresponding Author

PEER-REVIEWED PUBLICATIONS IN LANGUAGES OTHER THAN ENGLISH

1. Yahagi T*, **Chen C**, Kawagucci S* (2019). What we know, what we can know, and what we will never know about the larval dispersal process at deep-sea chemosynthetic ecosystems. *Oceanography in Japan*, **28**: 97-125. DOI: 10.5928/kaiyou.28.4-5-6_97 [In Japanese with English abstract]

= Co-first Authors; * = Corresponding Author

MISCELLANEOUS PUBLICATIONS (NON PEER-REVIEWED)

4. **Chen C***, Parkinson DY, Sigwart JD (2018). Project focus: High-resolution 3D anatomy with a particle accelerator. *Deep-Sea Life*, **11**: 8.
3. Watanabe HK*, **Chen C**, Jenkins RG, Nobuhara T (2017). Workshop report: Evolution of chemosynthesis-based ecosystems. *Deep-Sea Life*, **10**: 25.
2. **Chen C*** (2017). Annual award winner report: Systematics, ecology, and evolution of hydrothermal vent endemic peltospirids (Mollusca: Gastropoda) from the Indian and Southern oceans. *The Malacologist*, **68**: 22-24.
1. **Chen C*** (2014). Molluscs found in hydrothermal vents of Okinawa Trough: Extreme species living in a poisonous paradise. *The Festivus*, **45**(3): 75-81.

= Co-first Authors; * = Corresponding Author

RESEARCH EXPEDITIONS

2019/08	R/V YOKOSUKA Cruise YK19-10
Tokyo – Chichijima	Hydrothermal vents, Izu-Ogasawara w/ DSV SHINKAI 6500 (Dived #1549)
2019/01	R/V SHINSEI-MARU Cruise KS19-01
Naha – Kagoshima	Hydrothermal vents and CO ₂ sites, Okinawa Trough w/ ROV Hyper-Dolphin
2018/10	R/V YOKOSUKA Cruise YK18-E02C w/ DSV SHINKAI 6500 (Dived #1525)
Beppu – Yokosuka	Manganese crust exploration; First ever SHINKAI 6500 single-pilot dive
2018/09	M/Y AXIS w/ acrylic hulled HOV TRITON 3300/3 Mk. II (3 dives in person)
Freeport, Bahamas	Exploring underwater cliffs off Freeport, Grand Bahamas Island, Bahamas
2018/07~2018/08	R/V KAIMEI Cruise KM18-07C
Yokosuka – Okinawa	Hydrothermal vents, Okinawa Trough w/ KAIMEI ROV & VMPS
2018/02~2018/03	R/V KAIREI Cruise KR18-03C
Yokosuka – Kagoshima	Hydrothermal vents, Okinawa Trough w/ ROV KAIKO (Vehicle Mk-IV)
2017/10	R/V MIRAI Cruise MR17-07C

Hachinohe–Nakagusuku 2017/08	Okinawa Trough vents w/ <i>Vertical Multi-layer Plankton Sampler</i> R/V YOKOSUKA Cruise YK17-17
Naha – Ishigaki 2016/11~2016/12	Hydrothermal vents, Okinawa Trough w/ DSV SHINKAI 6500 R/V KAIREI Cruise KR16-16
Naha – Kagoshima 2016/10~2016/11	Hydrothermal vents, Okinawa Trough w/ ROV KAIKO (Vehicle Mk-IV) R/V KAIREI Cruise KR16-14
Saipan – Naha 2016/06~2016/07	Shinkai Seep Field (Mariana Trench) w/ ROV KAIKO (Vehicle Mk-IV) R/V KAIMEI Cruise KM16-04
JAMSTEC – JAMSTEC 2016/04	Sagami Bay hydrocarbon seep w/ ROV HYPER-DOLPHIN & KAIMEI ROV R/V KAIMEI Cruise KM16-01
JAMSTEC – JAMSTEC 2016/02~2016/03	Sagami Bay and Suruga Bay w/ KAIMEI ROV R/V YOKOSUKA Cruise YK16-E02
Mauritius – Mauritius 2016/01	Indian Ocean hot vents w/ DSV SHINKAI 6500 (Dived to vent: 6K#1457) R/V YOKOSUKA Cruise YK16-E01
Mauritius – Mauritius 2015/11	Indian Ocean hot vents w/ AUV URASHIMA R/V KAIREI Cruise KR15-17
Naha – Naha 2015/10~2015/11	Hydrothermal vents, Okinawa Trough w/ ROV KAIKO (Vehicle Mk-IV) R/V KAIREI Cruise KR15-16
Naha – Naha 2015/07~2015/08	Hydrothermal vents, Okinawa Trough w/ ROV KAIKO (Vehicle Mk-IV) R/V NATSUSHIMA Cruise NT15-13
Kumamoto–Kagoshima 2014/02	Hydrothermal vents, Okinawa Trough w/ ROV HYPER-DOLPHIN R/V KAIYO Cruise KY14-02
Naha – Naha 2014/01	Hydrothermal vents, Okinawa Trough w/ ROV HYPER-DOLPHIN R/V KAIYO Cruise KY14-01
Yokohama – Naha 2012/12~2013/01	Hydrothermal vents, Okinawa Trough w/ ROV HYPER-DOLPHIN RRS James Cook Cruise JC80
Chile – Uruguay 2011/11	Hydrothermal vents, E2 & E9 Segments, East Scotia Ridge w/ ROV Isis RRS James Cook Cruise 67
Within JC66 2011/11~2011/12	Hydrothermal vents, South West Indian Ridge w/ ROV Kiel6000 RRS James Cook Cruise 66
South Africa – South Africa	Seamounts, South West Indian Ridge w/ ROV Kiel6000

Total = 285 days on-board

FUNDING AND SUPPORT RECEIVED

2019 (~2022)	Hong Kong Research Grants Council (HKRGC) General Research Fund <i>Uncovering the scaly-foot snail genome to reveal how molluscs generate evolutionary novelties</i> (Project Number 16101219) Co-PI HK\$1,088,515; With Dr. Jin Sun (Hong Kong University of Science and Technology).
2018/10 (~2020/09)	Mohamed bin Zayed Species Conservation Fund <i>A Red List for molluscs from hydrothermal vents in the Indian Ocean</i> (Project Number 182518473) Co-PI US\$8,000; With Dr. Julia D. Sigwart (Queen's University Belfast).
2018/04 (~2021/03)	JSPS Grant-in-Aid for Scientific Research (“KAKENHI”) <i>Does planktonic larval dispersal generate diversity in deep-sea benthic invertebrate animals?</i> (Grant Number 18K06401) Co-PI ¥4,420,000; PI: Dr. Hiromi Watanabe (JAMSTEC).
2018/01	JSPS Postdoctoral Fellowship for Research in Japan (Standard) <i>Quantitative analyses of adaptations to the deep-sea using synchrotron CT and 3D reconstruction</i> (Supervised by Dr. Takenori Sasaki, The University of Tokyo) ¥8,688,000; Declined to take up a Tenure-Track Scientist position instead
2017/07 (~2018/03)	SPring-8 Synchrotron Priority Research Proposal: Social Interest (2017B1767) <i>Quantifying molluscan anatomy through 3D visualization: Elucidating useful criteria for inferring feeding modes of extinct taxa</i> Co-proponent (w/ Dr. Takenori Sasaki, The University of Tokyo)
2017/06 (~2019/05)	Advanced Light Source Standard Synchrotron Proposal (ALS-09238)

- 3D visualization and quantification of molluscan digestive systems: An evaluation of criteria to infer feeding habits from digestive tract morphology*
Co-proponent (w/ Dr. Takenori Sasaki, The University of Tokyo)
- 2017/02 (~2017/10) **SPring-8 Synchrotron Priority Research Proposal: Social Interest (2017A1720)**
Testing correlation between alimentary canal structure and feeding mode: Towards reconstruction of feeding in extinct molluscs
Co-proponent (w/ Dr. Takenori Sasaki, The University of Tokyo)
- 2016/05 (~2016/10) **Advanced Light Source RAPIDD Synchrotron Proposal (ALS-RA-00172)**
Internal anatomy of the deep-sea chemosymbiotic snail Gigantopelta
Proponent / Experiment Leader
- 2015/05 (~ 2018/04) **JAMSTEC International Postdoctoral Fellowship Research Funds**
Research funding associated JAMSTEC International Postdoctoral Fellowship
¥1,000,000 (FY2015/16); ¥500,000 (FY2016/17-FY2017/18)
- 2014/12 **Research Grant, Conchological Society of Great Britain and Ireland**
Revealing cryptic diversity of hot-vent skeneiform gastropods of Okinawa Trough
Proponent / Experiment Leader, £992.02
- 2014/03 **Research Grant, Malacological Society of London**
Characterisation of the extraordinary circulatory system of the scaly-foot gastropod
Proponent / Experiment Leader, £1500.00
- 2013/12 **InterRidge Cruise Travel Bursary,**
Funding to join JAMSTEC research cruises KY14-01 and KY14-02, US\$2,000.00
Counterparts: Dr. Hiromi Watanabe & Dr. Ken Takai (JAMSTEC)
- 2013/12 **Supplementary Travel Grant**
Merton College, University of Oxford, £300.00
- 2013/12 **Graduate Research Expenses Grant**
University of Oxford, £300.00
- 2013/06 **Graduate Research Expenses Grant**
University of Oxford, £285.00
- 2013/04 **Unitas Malacologica Travel Grant 2013**
Funding to attend the World Congress of Malacology 2013, Portugal, €400.00
- 2012/11 **Research Teaching Support Grant**
Department of Zoology, University of Oxford, £1,200.00
- 2012/11 **Supplementary Travel Grant**
Merton College, University of Oxford, £300.00
- 2012/04 **Research Teaching Support Grant, Dept. Zoology, Oxford Univ.,**
Department of Zoology, University of Oxford, £2,306.00
- 2011/12 **Supplementary Travel Grant**
Merton College, University of Oxford, £300.00
- 2010/06 **Vacation Laboratory Studentship**
St Anne's College, University of Oxford, £500.00
- 2010/06 **JCR Research & Travel Grant**
St Anne's College, University of Oxford, £250.00

LEARNED SOCIETIES

- 2016 ~ Present **Japan Geoscience Union**
Member
- 2015 ~ Present **Deep-Sea Biology Society**
2018~ Society Trustee
2015~ Member
- 2015 ~ Present **Malacological Society of Japan**
Member
- 2013 ~ Present **Unitas Malacologica**
Member

2012 ~ Present	Conchological Society of Great Britain and Ireland Member
2012 ~ Present	Malacological Society of London
2015~	Honorary Officer and Council Member
2012~	Member

EDITORIAL ROLES

2017/07 ~ Present	Associate Editor Frontiers in Marine Science Section: <i>Marine Evolutionary Biology, Biogeography and Species Diversity</i>
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AWARDS RECEIVED

2018/04	WoRMS “10 Astounding Marine Species of the Last Decade (2007~2017)” Awarded to the Scaly-foot Snail <i>Chrysomallon squamiferum</i> Chen <i>et al.</i> , 2015 and the lead-authored paper describing it
2018/04	Award of Excellence 12th “Beauty” in Science and Technology Panel Exhibition (2018) For the photograph “Scenery in Edmond field, Indian Ocean” Voted by the public; award by Japan Science and Technology Agency
2016/04	Annual Award (Year 2015/2016), Malacological Society of London For an exceptionally promising initial contribution to the study of molluscs
2015/06	The Best Oral Presentation Award International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems 2015 (BECOME 2015), Hong Kong
2013/07	The Best Poster Award World Congress of Malacology 2013, Unitas Malacologica

CONFERENCES / SYMPOSIUMS

2020/08	Keynote	7th International Symposium on Chemosynthesis-Based Ecosystems Guarujá, São Paulo, Brazil *POSTPONED DUE TO COVID-19*
2020/06	Invited Oral	IUCN World Conservation Congress 2020 Marseilles, France *POSTPONED DUE TO COVID-19*
2019/11	Keynote	4th InterRidge Theoretical Institute Meeting Banyuls-sur-mer, Pyrénées-Orientales, France
2019/09	Poster	“Pearls of Wisdom” Scientific Meeting, the Royal Society Chicheley Hall, Buckinghamshire, United Kingdom
2019/08	Invited Oral	20th World Congress of Malacology Asilomar, Pacific Grove, California, U.S.A.
2018/09	Plenary + Poster	15th Deep-sea Biology Symposium (DSBS) Monterey, California, U.S.A.
2018/05	Poster	The Malacological Society of Japan Annual Meeting 2018 Tokyo University of Marine Science and Technology, Japan
2018/03	Poster	JAMSTEC Advisory Board Meeting JAMSTEC Yokohama Institute, Kanagawa, Japan
2017/11	Oral	InterRidge-Japan Research Meeting 2017 Atmosphere and Ocean Research Institute, the University of Tokyo, Japan
2017/08	Oral + Poster	6th International Symposium on Chemosynthesis-Based Ecosystems Woods Hole Oceanographic Institute, Massachusetts, USA
2017/05	Oral	JpGU-AGU Joint Meeting 2017 Makuhari Messe, Chiba Prefecture, Japan
2016/07	Oral	19th World Congress of Malacology Penang Island, Penang State, Malaysia
2016/04	Poster	The Malacological Society of Japan Annual Meeting 2016

2015/10	Oral	Toho University (Narashino Campus), Chiba, Japan 2nd InterRidge International Workshop, Circum-Antarctic Ridges
2015/09	Oral	Korea Polar Research Institute (KOPRI), Incheon, Republic of Korea 14th Deep-Sea Biology Symposium
2015/08	Poster	University of Aveiro, Aveiro, Portugal Systematics Association Biennial Conference 2015
2015/06	Oral	University of Oxford, England, United Kingdom 1st International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems (BECOME 2015)
2014/11	Oral + Poster	University of Hong Kong, Hong Kong SAR JAMSTEC International Workshop for Large-scale Research Cruises
2014/10	Oral	Yokohama, Japan (<i>Assistant for Chair, Ken Takai: Vent & Seep Systems Session</i>) 3rd World Conference on Marine Biodiversity
2014/09	Oral	Qingdao, Shandong Province, China 7th Congress of the European Malacological Societies (EUROMAL)
2014/02	Oral	University of Cambridge, England, United Kingdom JAMSTEC Blue Earth Symposium 2014
2013/11	Oral	Tokyo, Japan, As a part of Dr. Ken Takai's presentation in session BE14-11 British Antarctic Survey Student Science Symposium
2013/07	Oral + Poster	Cambridge, England, United Kingdom 18th World Congress of Malacology
2012/03	Oral	Ponta Delgada, Azores, Portugal NERC ChEsSO Consortium Meeting
		British Antarctic Survey, Cambridge, England, United Kingdom

* Only meetings attended and presented in person are listed.

TEACHING EXPERIENCE

2018	Practical	Yokohama National University, Japan Course: <i>Ocean and Earth Life Sciences Special Practical</i> Graduate School of Environment and Information Sciences
2018	Lectures	Akita Prefectural University, Japan Course: <i>Frontiers in Life Sciences Course</i> Graduate School, Faculty of Bioresource Sciences
2017~2018	Lectures	Sophia University, Tokyo, Japan Course: <i>Basic Oceanography and Global Environmental Science</i> Graduate School of Global Environmental Studies
2017/05	Lectures + Field	Universiti Putra Malaysia, Selangor, Malaysia Training Workshop on Intertidal Mollusc Taxonomy Field teaching and three lectures on malacology
2013~14	Curation	Oxford University Natural History Museum, England, United Kingdom Supervising students and volunteers in updating, cataloguing, and database making of the mollusc collection in the museum; every Monday, 10am~4pm
2011~15	Tutorials	University of Oxford, England, United Kingdom A number of tutorials for undergraduates studying the Bachelor of Arts in Biological Sciences course, in Marine Biology and Quantitative Methods

OTHER INVITED SEMINARS

2019/03	Invited Lecture	Hiroo Gakuen Junior & Senior High School, Tokyo Lectures at 'Super Academia 2019'
2018/11	Invited Seminar	Second Institute of Oceanography (SIO), China Invited by: Dr. Yadong Zhou / Dr. Chunsheng Wang
2018/11	Invited Seminar	Sanya Institute of Deep-Sea Science and Engineering (IDSSE), Hainan Island Invited by: Dr. Haibin Zhang
2017/08	Departmental Seminar	Hong Kong Baptist University Invited by: Dr. Jian-Wen Qiu

2017/07	Public Seminar	4th Hakubutsu Festival! at Japan Science Museum, Tokyo Invited by: Organising committee of the Hakubutsu Festival!
2017/03	Public Seminar	Kannonzaki Nature Museum, Kanagawa, Japan Invited by: Mr. Kazuhiko Yamada
2017/02	Public Seminar	Kanagawa Prefectural Museum of Natural History, Japan Annual joint seminar series between JAMSTEC and the museum
2016/10	Departmental Seminar	University of California, Berkeley, U.S.A. “Fossil Coffee” series, University of California Museum of Paleontology
2015/06	Departmental Seminar	Hong Kong University of Science and Technology Invited by: Prof. Pei-Yuan Qian
2014/12	Departmental Seminar	University of Hong Kong Invited by: Prof. Kenneth M.Y. Leung
2014/04	Departmental Seminar	Hong Kong Baptist University Invited by: Dr. Jian-Wen Qiu
2013/05	Symposium	Atmosphere & Ocean Research Institute, the University of Tokyo, Japan Ecology of Hydrothermal Systems Symposium
2013/05	Departmental Seminar	Japan Agency of Marine-Earth Science and Technology BioGeos Seminar, invited by Dr. Hiromi Watanabe

PUBLIC OUTREACH

2019/11	TV	NHK (Japan) “The Professionals” TV on-air: Episode focusing on DSV <i>Shinkai 6500</i> and cruise YK19-10
2019/11	Podcast	Sustainable Asia Series ‘Mining the Deep: Is the ocean floor worth sacrificing?’ Interviewed by Marcy Trent Long and Sam Colombie
2019/03	360° Movie	National Science Museum, Tokyo (‘Kahaku’) 360 Theatre ‘Deep Sea’ Supervision role, with NSMT and JAMSTEC PR Department
2019/02	VR	JAMSTEC ‘Virtual Reality in Deep Sea – Step on Seabed’ Video Programme Scientific supervision role, with JAMSTEC PR Department
2018/07	Radio	TBS Radio “Shinichiro Azumi’s Sunday Heaven” (‘Nichiten’) Invited guest speaker
2018/04	Live Stream	Nintendo Switch “Splatoon 2” x JAMSTEC Collaboration Project Internet live-stream programme (JAMSTEC x Niconico #06)
2018/03	Exhibition	American Museum of Natural History “Unseen Oceans” Special Exhibit, Mar 2018–Jan 2019; Panel exhibit as ‘next generation researcher’
2018/02 – Present	Facebook	Group “ISCC - International Seashell Collectors Club” Administrator, over 2,800 members worldwide (as of 2018/10) https://www.facebook.com/groups/fscadmin/
2018/01	TV	TBS (Japan) “Shin. Doubutsu Kisou-Tengai! 2018 SP” TV on-air: Interview and showcasing of the ‘scaly-foot gastropod’
2017/05	Event	JAMSTEC Yokosuka Headquarters Open Day 2017 Display of 3D printed deep-sea animals, research display, and D-SUGAR seminar
2016/08	Event	Comic Market (“Comiket”) 90, Tokyo Big Sight, Japan Exhibitor of natural history magazines (with Surplunear Co., Ltd.)
2016/06	Magazine	Maniac Manual (“ManiMani”) Vol. 3: Deep-sea Co-contributor, Occasional publication of Surplunear Co., Ltd. [In Japanese] http://www.manimani.online/vol03.html
2016/05	Event	JAMSTEC Yokosuka Headquarters Open Day 2016 Research / specimens display, and D-SUGAR seminar
2016/04 – Present	Facebook	Group “Seashell Collectors” Administrator, over 5,700 members worldwide (as of 2018/10) https://www.facebook.com/groups/Sseashell/
2016/02	Magazine	Maniac Manual (“ManiMani”) Vol. 2: Shells Main contributor, Occasional publication of Surplunear Co., Ltd. [In Japanese] http://www.manimani.online/vol02.html
2015/09	Event	Deep-sea Dream II “KAIDAN”, Naked Loft, Tokyo, Japan Talk event featuring the JAMSTEC-based novel “ <i>Umi Ni Furu</i> ” (by Kaeruko)

- Akeno); Invited speaker along with the author Kaeruko Akeno and Dr. Ken Takai (JAMSTEC)
<http://dream.dpc-mother.com/dream00002.html>
- 2015/09 **Invited Blog Post** **Animal Bytes: Cambridge University Museum of Zoology Blog**
Making a skeleton out of iron: the 'scaly-foot gastropod'
<http://bit.ly/SkeletonOutOfIron>
- 2015/04 **Invited Blog Post** **More than a Dodo: Oxford University Museum of National History Blog**
The Iron Snail
<https://morethanadodo.com/2015/04/28/the-iron-snail/>
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CERTIFICATION / TRAINING

- 2018/10 **First Aid Course (Standard, Type I), Japan**
Completed training to become a certified first aider. A requirement for diving in the manned submersible DSV *SHINKAI 6500* with a single pilot.
- 2011/10 **Personal Survival Techniques Training, Warsash Maritime Academy**
Completed a sea survival training course approved by the Maritime and Coastguard Agency, U.K.; meeting the requirements of STCW 95 Reg. VI/1, Section A-VI/1, Para. 2.1.1.
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REFERENCES

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