

# Sun Wook Kim

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## Education

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- Ph.D.** The University of Queensland, School of Biological Sciences, 2015-Present.
- Evolution and ecology of corals' range limits under climate change
- Advisors: John Pandolfi, Cynthia Riginos, Maria Beger, Eugenia Sampayo
- M.S.** University of Guam, Department of Biology, 2007-2010.
- Molecular systematics of the tropical sea cucumbers *Bobadschia* (Holothuriidae: Holothuroidea)
- Advisor: Alexander Kerr
- B.S.** Seattle University, College of Science and Engineering, 2002-2007 (with Honours: *cum laude* (GPA: 3.594), President's List, Dean's List).
- Senior dissertation: Ultrastructural investigation of nonfeeding pilidium larva from *Micrura verrilli* (Heteronemertea: Nemertea)
- Advisor: Megan Schwartz

## Awards

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- 2016** Australian Coral Reef Society Award (AUD 2,500)
- 2016** School of Biological Sciences Conference Travel Award (AUD 1,600)
- 2015-2017** International Postgraduate Research Scholarship, The University of Queensland
- 2015-2017** University of Queensland Centennial Scholarship, The University of Queensland
- 2015-2016** Korea Institute of Ocean Science and Technology Research Grant, Korea Institute of Ocean Science and Technology, and Ministry of Oceans and Fisheries. Co-investigator (KRW 40,000,000 - approximately AUD 46,000)
- 2007-2010** Marine Laboratory Graduate Fellowship, University of Guam
- 2009** Lerner-Gray Grant, American Museum of Natural History (USD 680)

2005 Bannan Scholarship, Seattle University (USD 6,000)

## Appointments

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- 2015-Present** Tutor (U.S. equivalent to Teaching Assistant) for International Program for Stanford University
- 2015-Present** Tutor (U.S. equivalent to Teaching Assistant) for courses: Marine Ecology and Conservation; Marine Science; Australia's Marine Environment
- 2010-2015** Research Scientist, Korea Institute of Ocean Science and Technology (Supervisor: Heung-sik Park)
- Collections Manager, Korea South Pacific Ocean Research Center (Supervisor: Heung-sik Park)
- 2007-2010** Research Assistant II, Marine Laboratory, University of Guam (Advisor: Alexander Kerr)
- 2008** Visiting Research Fellow, Florida Museum of Natural History, University of Florida (Advisor: Gustav Paulay)
- 2006-2007** Undergraduate Researcher, Kewalo Marine Laboratory, University of Hawai'i at Manoa; Seattle University (Advisors: Michael Hadfield, Megan Schwartz)
- 2004-2006** Teaching Assistant (General Biology, Invertebrate Zoology), Tutor (Calculus), Laboratory Assistant (Molecular Biology), Seattle University

## Publications

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### Peer-reviewed manuscripts

- 2015** **Kim, S.W.**, Chung, M., Park, H.-S. Tropical fish species thriving in temperate Korean waters. *Marine Biodiversity* 45(2): 147-148.
- 2014** **Kim, S.W.**, Miller, A.J., Brunson, C., Netchy, K., Clouse, R., Janies, D., Tardy, E., Kerr, A.M. Shallow-water holothuroids (Echinodermata) of Yap, Federated States of Micronesia. *Pacific Science* 68(3): 397-420.
- Shin, H.-J., **Kim, S.W.**, Choi, Y.-U. Morphological and genetic characters of pearl-spot damselfish *Chromis notata* (Teleostei: Pomacentridae) in Korea. *Ocean and Polar Research* 36 (2): 189-197. doi:10.4217/OPR.2014.36.2.189.
- 2013** **Kim, S.W.**, Kerr, A.M., Paulay, G. Colour, confusion and crossing: resolution of species problems in *Bobadschia* (Echinodermata: Holothuroidea). *Zoological Journal of the Linnean Society* 168: 81-97.
- Michonneau, F., Borrero-Perez, G.H., Honey, M., Kamarudin, K.R., Kerr, A.M., **Kim, S.**, Menez, A., Miller, A., Ochoa, J.A., Olavides, R.D., Paulay, G., Samyn, Y., Setyastuti, A., Solis-Marin, F., Starmer, J., VandenSpiegel D. The littoral sea cucumber (Echinodermata: Holothuroidea) fauna of Guam re-

assessed – a diversity curve that does not asymptote. *Cashiers de Biologie Marine* 54: 531-540.

### Books

- 2015 Park, H.-S., Oh, J.H., **Kim, S.W.**, Choi, H.W., Kim, T.H., Kim, T. eds. Environment of the Chuuk Lagoon. Korea Institute of Ocean Science and Technology Press, Korea.
- 2014 **Kim, S.W.**, Choi, Y.-U., Kim, T., Park, H.-S. eds. Coral reefs of Chuuk, Federated States of Micronesia. Korea Institute of Ocean Science and Technology Press, Korea.

### Technical reports

- 2016 **Kim, S.W.**, Park, H.-S., Choi, G.-S. Status of coral reefs of Korea. Global Coral Reef Monitoring Network (GCRMN) Report.
- 2013 Park, H.-S., Park, S.-H., Kang, D.-H., Lee, H.-S., Kwon, S.-J., **Kim, S.W.**, Yoon, G., Kim, T., Lee, J.-Y. Climate change, tropicalization and their impact on Korean marine ecosystem: research overview. Ministry of Land, Transport and Maritime Affairs (Korea) Report BSPM57160-10209-3.
- Kerr, A.M., **Kim, S.W.**, Miller, A.J. The Shallow-water holothuroids of Chuuk, Federated States of Micronesia. University of Guam Marine Laboratory Technical Report 155.
- Kerr, A.M., **Kim, S.W.** Selected descriptions of sea cucumbers in the genus *Bobadschia* (Holothuriidae) by Cherbonnier, Jäeger, Ludwig, Panning, Selenka and Semper. University of Guam Marine Laboratory Technical Report 145.
- 2012 Park, H.-S., Choi, Y.-U., Yoon, G., **Kim, S.W.**, Kim, T., Chung, M. Establishing research infrastructure in the tropical Pacific: a synthesis report: Biology. Ministry of Land, Transport and Maritime Affairs (Korea) Report BSPM 56560-10135-7.
- 2008 Kerr, A.M., **Kim, S.W.**, Michonneau, F. The Shallow-water Echinoderms of Kosrae. University of Guam Marine Laboratory Technical Report 123.

### Invited Talks

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- 2014 Climate change on biodiversity and biogeography. Korea-Italy Bilateral Symposium (hosted by Embassy of Italy in Seoul). Korea Institute of Ocean Science and Technology, Korea.
- 2013 Integrative taxonomy at work: the overview of the genus *Bobadschia*. Marine Science Institute, University of the Philippines Diliman, Quezon City, Philippines.
- Cataloguing Chuuk's underwater beasts. University of Guam, Mangilao, GU. USA.
- The status quo of coral reefs in Chuuk and the role of Korea South Pacific

Ocean Research Center (KSORC). University of Guam, Mangilao, GU. USA.

- 2011 Biogeography, biodiversity and molecular phylogenetics: Philippines' importance in the global context. University of the Philippines Visayas, Philippines.

### Conference Presentations (\*: presenter)

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- 2016 **Kim, S.W.\***, Blomberg, S., Pandolfi, J.M. Filling the gaps: Imputation of the Coral Trait Database and functional biogeography of scleractinian corals [oral]. 13<sup>th</sup> International Coral Reef Symposium. Honolulu, HI. U.S.A.
- 2014 **Kim, S.W.\***, Park, H.-S. Clash between unique culture and conservation, and reconciliation through science: an effort in Chuuk, FSM [oral]. 3<sup>rd</sup> Asia-Pacific Coral Reef Symposium. Kenting, Taiwan.
- Kim, S.W.**, Miller, A.K.\*, Kerr, A. Holothuroid fauna of Chuuk (Federated States of Micronesia) [poster]. 7<sup>th</sup> North American Echinoderm Conference. Pensacola, FL. U.S.A.
- 2012 **Kim, S.W.\***, Kerr, A.M., Paulay, G. Molecular systematics of the tropical sea cucumbers *Bobadschia* (Holothuriidae: Holothuroidea) [oral]. 12<sup>th</sup> International Coral Reef Symposium. Cairns, QLD. Australia.
- Borrero-Perez, G.H., Honey, M., Kamarudin, K.R., Kerr, A., **Kim, S.**, Menez, A., Michonneau, F.\*, Ochoa, J.A., Olavides, R.D., Paulay, G., Samyn, Y., Setyastuti, A., Solis-Marin, F., Starmer, J., VandenSpiegel, D. The littoral sea cucumber (Echinodermata: Holothuroidea) fauna of Guam re-assessed – a diversity curve that still does not asymptote. 14<sup>th</sup> International Echinoderm Conference. Brussels, Belgium.
- 2009 Michonneau, F.\*, **Kim, S.W.**, Netchy, K., Starmer, J., McPherson, S., Campbell, C.A., Katz, S.G., Kenyon, L., Zill, J., O'Laughlin, M., Kerr, A.M., Paulay, G. Mitochondrial markers reveal many species complexes and non-monophyly in aspidochirotid holothurians. 13<sup>th</sup> International Echinoderm Conference. University of Tasmania, Tasmania.
- 2008 **Kim, S.W.\***, Michonneau, F., Kerr, A.M. Holothurians of Kosrae (Federated States of Micronesia) and Majuro (Republic of the Marshall Islands) [poster]. 5<sup>th</sup> North American Echinoderm Conference. Melbourne, FL. U.S.A.
- Campbell, C., Honey, M., Kenyon, L., Kerr, A.M., **Kim, S.**, Massin, C., McPherson, S., Mezali, K., Michonneau, F.\*, Netchy, K., O'Loughlin, M., Paulay, G., Pawson, D., Rowe, F., Samyn, Y., Smiley, S., Solis-Marin, F., Starmer, J., Thandar, A., Van den Spiegel, D., Werner, T. 2008. The Holothurian PEET project and the Aspidochirotid working group: Integrative taxonomy on a large scale. 5<sup>th</sup> North American Echinoderm Conference. Melbourne, FL. U.S.A.
- Kim, S.W.\***, Kerr, A.M., Paulay, G. Nocturnal Monsters, *Bobadschia's* Cryptic Diversity (Holothuriidae: Holothuroidea) [poster]. 11<sup>th</sup> International Coral Reef Symposium. Fort Lauderdale, FL. U.S.A.

Michonneau, F.\*, **Kim, S.**, McPherson, S., Netchy, K., Starmer, J., Kerr, A., Paulay, G. 2008. New insights into the biodiversity and evolution of aspidochirotid holothurians [poster]. 11<sup>th</sup> International Coral Reef Symposium. Fort Lauderdale, FL. U.S.A.

**2006** **Kim, S.W.\***, Campbell, M.B., Schwartz, M.L. Ultrastructural Investigation of Nonfeeding Pilidium Larva from *Micrura verrilli* (Heteronemertea: Nemertea) [poster]. 7<sup>th</sup> Larval Biology Symposium. Oregon Institute of Marine Biology, Coos Bay, OR. U.S.A.

**Kim, S.W.\***, Campbell, M.B., Schwartz, M.L. Ultrastructural Investigation of Nonfeeding Pilidium Larva from *Micrura verrilli* (Heteronemertea: Nemertea) [poster]. 15<sup>th</sup> Regional Conference on Undergraduate Research of the Murdock College Science Research Program. University of Portland, Portland, OR. U.S.A.

## **Graduate Student Thesis Committees**

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Allison Miller, M.S. (University of Guam) 2013-2014.

Hae-jung Shin, M.S. (University of Science and Technology, Korea) 2012-2014.

## **Scientific Expeditions**

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- 2016** Heron Island, Australia. Coral fragment sampling
- Moreton Bay area, Australia. Coral fragment sampling and coral bleaching survey
- Cook Island and Julian Rocks, Australia. Coral bleaching survey
- Solitary Islands, Australia. Coral fragment sampling and coral bleaching survey
- 2015** The Republic of Palau. Coral coring, and invertebrate sampling and cataloguing training
- Heron Island, Australia. Coral fragment sampling
- 2014** Chuuk (Tol and outer atolls), Federated States of Micronesia. Coral diversity survey, invertebrate and fish sampling.
- 2013** Bolinao, Philippines. Invertebrate sampling and cataloguing training
- Chuuk, Federated States of Micronesia. Coral diversity survey, invertebrate and fish sampling
- 2012** Kosrae, Federated States of Micronesia. Coral diversity survey and invertebrate sampling
- Chuuk, Federated States of Micronesia. Invertebrate sampling
- 2011** Ulleung island, Korea. Invertebrate sampling

- Dokdo island, Korea. Marine reserve biodiversity survey
- Jeju island, Korea. Marine reserve biodiversity survey
- Chuuk, Federated States of Micronesia. Invertebrate biodiversity survey
- Iloilo, Philippines. Invertebrate biodiversity survey and sampling
- 2010** Guam, U.S.A. Invertebrate sampling
- 2009** Wake island, U.S.A. Research Cruise (R/V Hi'ialakai, NOAA). Invertebrate biodiversity survey and sampling
- Yap, Federated States of Micronesia. Invertebrate biodiversity survey and sampling
- Guam, U.S.A. Invertebrate sampling
- 2008** Majuro, Republic of the Marshall Islands. Invertebrate biodiversity survey and sampling
- Kosrae, Federated States of Micronesia. Sea cucumber biodiversity survey and sampling
- Guam, U.S.A. Invertebrate sampling
- Florida Keys, FL. U.S.A. Invertebrate sampling
- 2007** O'ahu, HI. U.S.A. Echinoderm biodiversity survey
- 2006** Seattle, WA. U.S.A. Nemertean sampling

## **Media Coverage**

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- 2013-2014** The Last Blue Ocean. June, 2013 – May, 2014 editions. Monthly Chosun.

## **Outreach, Professional Service and Additional Qualifications**

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### Climate change, Pacific Island science programs:

- 2013** The Last Blue Ocean: conducted government leader interviews – published in Monthly Chosun June, July, September, October and December 2013 and January, February, April, May 2014 editions:
- Hon. Tommy Remengesau (President, the Republic of Palau)
  - Hon. Christopher Loeak (President, the Republic of Marshall Islands)
  - Hon. Alik Alik (Vice President, Federated States of Micronesia)
  - Hon. Lorin Robert (Secretary of the Ministry of Foreign Affairs, Federated States of Micronesia)
  - Hon. Johnson Elimo (Governor, Chuuk State, Federated States of Micronesia)
  - Hon. Alanso Cholymay (Senator and Chief at large, Chuuk State, Federated States of Micronesia)
  - Hon. Samiu Kuita Vaipulu (Deputy Prime Minister and Minister of Infrastructure, The Kingdom of Tonga)

- Hon. Tuilaepa Sailele Malielegaoi (Prime Minister, The Independent State of Samoa)
- Ms. Myra Moeka'a (Secretary, Ministry of Foreign Affairs and Immigration, The Cook Islands)
- Hon. Edward Natapei (Minister, Ministry of Foreign Affairs, The Republic of Vanuatu)
- Hon. Gordon Darcy Lilo (Prime Minister, The Solomon Islands)
- Hon. Peter Shannel Agovaka (Minister, Ministry of Foreign Affairs, The Solomon Islands)
- Hon. Anote Tong (President, Republic of the Kiribati)
- Hon. Enele Sopoaga (Prime Minister, Tuvalu)
- Mr. Tevita Boseiwaqa (Secretary, Ministry of Lands and Mineral Resources, Fiji)

**2011** Educational Poster for the government of Chuuk State, Federated States of Micronesia:

- Importance of Mangrove forest

Journal Review:

Zoological Journal of the Linnean Society

Workshop and seminar organizations:

**2014** 3<sup>rd</sup> Asia Pacific Coral Reef Symposium. Co-chair: Mini-symposium 15 – Reef conservation research in Micronesia. Howard Hotel, Kenting, Taiwan. June 2014.

3<sup>rd</sup> South Pacific – Asia Marine Science (SPAM) Workshop. Howard Hotel, Kenting, Taiwan. June 2014.

**2013** 2<sup>nd</sup> South Pacific – Asia Marine Science (SPAM) Workshop. University of Guam, USA. June 2013.

**2012** 8<sup>th</sup> International Coral Reef Initiative (ICRI) East Asia Regional Workshop. Ocean Suites Hotel Jeju, Korea. September 2012.

1<sup>st</sup> South Pacific – Asia Marine Science (SPAM) Workshop. Korea Institute of Ocean Science and Technology, Korea. April 2012.

**2010** Seminar Series POETS Coordinator, Marine Laboratory, University of Guam

Diving:

Scuba Diving International (SDI) Divemaster with specialties: Underwater Navigation, Night/Limited Visibility, Deep, and Enriched Air Nitrox

Histology:

Transmission electron microscopy – sample preparation and microscope operation