

# Eunah Han

157 Guyot Hall, Princeton University, Princeton NJ 08544

eunahh@princeton.edu; +1-443-624-8732; [Google Scholar](#); [ResearchGate](#); [Princeton Webpage](#)

## Education

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- Jul. 01, 2017 – (Early admission)**     **Ph.D. candidate, Department of Geosciences**  
Princeton University, NJ (Advisor: Dr. Xinning Zhang)
- Aug. 08, 2014**     **M.Sc. in Environmental Science**  
Pohang University of Science and Technology (POSTECH), South Korea  
Thesis: "Stable isotope analysis of a newly established macrofaunal food web 1.5 years after the *Hebei Spirit* oil spill" (Advisor: Dr. Chang-Keun, Kang)
- Aug. 10, 2012**     **B.Sc. in Life Science, POSTECH, South Korea**  
Thesis: "AUG upstream A-rich region enhances translation initiation"

## Employment

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- Sep. 2014 – Jun. 2017**     **Researcher, Long-Term Marine Ecosystem Research (LTMER) Center**  
Gwangju Institute of Science and Technology (GIST), South Korea
- Sep. 2016 - Mar. 2017**     **Visiting faculty research assistant**  
Chesapeake Biological Laboratory (CBL)  
University of Maryland Center for Environmental Science (UMCES), MD  
Project: "Modeling the effects of salinity and temperature on growth of the eastern oyster *Crassostrea virginica* in the Choptank River System"

## Publications

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1. **E. Han**, H. J. Park, L. Bergamino, K.-S. Choi, E. J. Choy, O. H. Yu, T. W. Lee, H.-S. Park, W. J. Shim, C.-K. Kang, 2015. Stable isotope analysis of a newly established macrofaunal food web 1.5 years after the *Hebei Spirit* oil spill, *Marine Pollution Bulletin*, 90, 167-180.
2. C.-K. Kang, Y. J. Lee, **E. Han**, H. J. Park, S. G. Yun, W. C. Lee, 2015. Effects of temperature and body size on the physiological energetics of the stalked sea squirt *Styela clava*, *Journal of Experimental Marine Biology and Ecology*, 462, 105-112.
3. H. J. Park, **E. Han**, W. C. Lee, J. H. Kwak, H. C. Kim, M. S. Park, C.-K. Kang, 2015. Trophic structure in a pilot system for the integrated multi-trophic aquaculture off the east coast of Korean peninsula as determined by stable isotopes, *Marine Pollution Bulletin*, 95, 207-214.
4. H. J. Park, I. Yeon, **E. Han**, Y. J. Lee, S. M. Hanchet, G. W. Baeck, Y. Kwon, S. G. Choi, D. W. Lee, C.-K. Kang, 2015. Diet study of Antarctic toothfish caught in the eastern Antarctic Sea based on stomach content, fatty acid, and stable isotope analyses, *CCAMLR Science*, 22, 29-44.
5. L. Bergamino, A. Martínez, **E. Han**, D. Lercari, O. Defeo, 2016. Trophic niche shift driven by phytoplankton in sandy beach ecosystems, *Estuarine, Coastal, and Shelf Science*, 180, 33-40.
6. H.J. Park, **E. Han**, Y. J. Lee, C.-K. Kang, 2016. Trophic structure of a temperate intertidal macrobenthic food web under opportunistic macroalgal blooms: a stable isotope approach, *Marine Pollution Bulletin*, 111, 86-94.
7. J. H. Kwak, **E. Han (joint first author)**, J. Hwang, C. I. Lee, Y. I. Kim, C.-K. Kang, 2017 (available online). Flux and stable C and N isotope composition of sinking particles in the Ulleung Basin of the East/Japan Sea, *Deep Sea Research Part II*.

8. J. H. Kwak, **E. Han**, S. H. Lee, H. J. Park, K.-R. Kim, C.-K. Kang, in press. Meridional consistency in phytoplankton communities across the whole sea-scale transect of the East/Japan Sea as determined by pigment analysis, *Deep Sea Research Part II*.
9. Y.-J. Lee, **E. Han**, M.J. Wilberg, W. C. Lee, C.-K. Kang. Physiological processes and gross energy budget of the submerged longline-cultured Pacific oyster, in preparation.
10. **E. Han**, C.-K. Kang, R. Ji, C. I. Lee, M.J. Wilberg. Physiological benefits of rising temperature to temperate clams, *Gomphina veneriformis*, in preparation.
11. **E. Han**, M.J. Wilberg, K. T. Paynter, C.-K. Kang. Effects of salinity and temperature on growth of the eastern oyster *Crassostrea virginica* in the Choptank River System, in preparation.

## **Presentations**

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- E. Han** et al., Intermediate-term effect of the Hebei Spirit oil spill on intertidal macrofaunal community revealed by C and N stable isotopes, 2013 Feb., *American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting*, New Orleans, LA, Oral presentation.
- E. Han** et al., Resilience of a coastal ecosystem to the Hebei Spirit oil spill, 2013 Jun., *Croucher Summer Course: Climate Change and Marine Ecosystem*, Hong Kong, Poster presentation.
- E. Han** et al., Quantification of microalgal biomass and its importance in benthic trophic network in the Gwangyang Bay system, 2013 Sep., *The 27<sup>th</sup> Annual Meeting of the Korean Society of Phycology*, Daejeon, Korea, Oral presentation.
- E. Han** et al., Longitudinal variation in benthic trophic network along a transect from estuary to offshore in the Gwangyang Bay system of Korea, 2013 Nov., *The 22<sup>nd</sup> biennial conference of the Coastal & Estuarine Research Federation (CERF)*, San Diego, CA, Oral presentation.
- E. Han** et al., Trophic importance of offshore diatoms to benthic food web in the Youngil Bay of (East/Japan Sea) Korea: Estimating phylum-specific  $\delta^{13}\text{C}$  from natural phytoplankton assemblages, 2014 Oct., *The 2<sup>nd</sup> Asian Marine Biology Symposium*, Pusan, South Korea, Oral presentation.
- E. Han** et al., Stable isotope evidence challenges assumption of overwhelming allochthonous contribution to reflective sandy beach ecosystem, 2015 Nov., *The 23<sup>rd</sup> biennial conference of CERF*, Portland, OR, Oral presentation.
- D. Lee et al. (**E. Han** as a presenter), Longitudinal variation in gross biochemical composition and reproductive activity of Venus clam *Gomphina veneriformis* along the east coast of Korea, 2012 Nov., *The Annual Science Meeting of Fishery Sciences Association of Korea*, Pusan, South Korea, Oral presentation.
- D. Lee et al., Gross biochemical composition of Venus clam *Gomphina veneriformis* of the East/Japan Sea, 2012 Dec. *The 2<sup>nd</sup> Intl. Symposium on Asari Clam*, Pusan, South Korea, Poster presentation.
- C.-K. Kang et al., Seasonal shift of ecosystem structure around the Ulleung Basin of the East/Japan Sea, 2013 Sep. *2013 ICES Annual Science Conference*, Reykjavik, Iceland, Oral presentation.
- C.-K. Kang et al., Temperature-dependent physiological energetics of the sea squirt *Styela clava* in a temperate bay of Korea, 2015 Nov. *The 23<sup>rd</sup> biennial conference of CERF*, Poster presentation.

## **Awards, Scholarships, and Honors**

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- Jun. 2017** Kwanjeong Overseas Fellowship for a Ph.D. candidate **(USD 120,000)**  
- Conferred by Kwangjeong Educational Foundation of South Korea  
- Support my Ph.D. study from 2017 Fall to 2021 Spring (4 years)
- Jul. 2016** Governmental Study Abroad Fellowship for a Ph.D. candidate **(USD 80,000)**  
- Conferred by Republic of Korea Ministry of Education  
- Support my Ph.D. study from 2017 Fall to 2019 Spring (2 years)  
\* I have declined this fellowship to receive Kwanjeong Fellowship
- Nov. 11, 2015** Best Paper Presentation Award in Aquatic Ecology, **1<sup>st</sup> place (USD 1,000)**  
- Republic of Korea Ministry of Environment  
- "Trophic network along an estuarine-offshore transect of the Seomjin River estuary"
- Fall 2012 - Spring 2014** POSTECH Master's Tuition/Stipend **(USD 20,000)**
- Winter 2010/2011** POSTECH Global Enterprises Visiting Trip to USA **(Whole travel expenses)**  
- Visited the head office of Google, Microsoft, and Oracle in the US
- Fall 2010** POSTECH Undergraduate Research Program **(USD 5,000)**  
- "The function of NSAP1 in translation initiation"
- Aug. 2011** Bang Dosie World Heritage Explorers Grant **(USD 7,000)**  
- Visited MBARI, SIO, and WHOI in the US
- Fall 2009** **Dean's list**
- Summer 2009** Study Abroad Scholarship for Humanities **(USD 3,000)**  
- <L1B424 London's Musical Theatre> in University of Westminster, UK
- Mar. 2008 - Aug. 2012** National Science & Engineering Scholarship, **Tuition waiver (USD 22,000)**  
- Top 2,000 students (99th percentile) in 2008 Korean National SAT

## **Certificates and Training**

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- May. 4 - 8, 2015** Training Course on Basic Oceanography, UNESCO-WESTPAC, Phuket, Thailand
- Apr. 30, 2015** Workshop: GOCI Satellite Data Processing System, KIOST, Ansan, Korea
- Aug. 2014** Certificate (Online): Performing Spatial Interpolation Using ArcGIS, Esri, CA, US
- Mar. 17 - 19, 2014** Gas Chromatography Operation Training, Young-in Science, Seoul, South Korea
- Feb. 19 - 21, 2014** Certificate: ArcGIS 1- Basic Training, Esri Korea, Seoul, South Korea
- Jun. 17 - 21, 2013** Croucher Summer Course on Climate Change and Marine Ecosystems, Hong Kong University of Science & Technology, HongKong

## **Teaching Experiences**

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- Aug. 2010 & Jan. 2011** The 3<sup>rd</sup> and the 4<sup>th</sup> Potential Camp for High School Students, Biology, Paid
- Winter 2011** After-school Class of the Chung'gok Catholic Settlement House, Volunteer