

YANXIAN LI

I'm a postdoc research fellow at [Norwegian University of Life Sciences](#). My research interests include aquaculture, fish nutrition, gut health and microbiome. Currently, I'm working on *in-vitro* models for testing the nutritional and health effects of novel ingredients and feeds.



💻 RESEARCH EXPERIENCE

2021
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2015

- **Ph.D. research fellow**
The Nutrition and Health Unit, PARAFAG
📍 Norwegian University of Life Sciences
 - Potential of insects as alternative feed ingredients for salmon farming

2015
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2013

- **Master student**
The Key Laboratory of Mariculture, Ministry of Education
📍 Ocean University of China
 - Antinutritional effects of soya allergens, β -conglycinin and glycinin, on the growth and health of turbot

2013
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2012

- **Master student**
The Key Laboratory of Mariculture, Ministry of Education
📍 Ocean University of China
 - Tolerance and safety assessment of feed additives used in aquaculture

🎓 EDUCATION

2021
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2015

- **Ph.D., Veterinary Science**
Norwegian University of Life Sciences
📍 Oslo, NOR
 - Thesis: Insect larvae meal as a feed ingredient for Atlantic salmon (*Salmo salar*): Effects on intestinal function, health, and microbiota

2015
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2012

- **M.S., Aquaculture**
Ocean University of China
📍 Qingdao, CN
 - Thesis: Tolerance and safety assessment of daidzein in gibel carp (*Carassius auratus gibelio*), and cobalt dichloride in turbot (*Scophthalmus maximus*)

2012
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2008

- **B.S., Aquaculture**
Fujian Agriculture and forestry University
📍 Fuzhou, CN

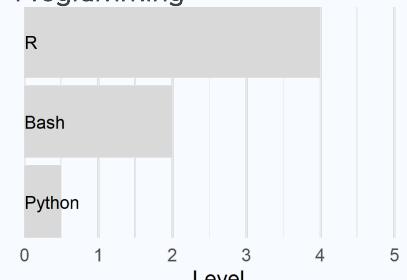
👥 CONFERENCE PROCEEDINGS

CONTACT

- ✉ yanxianl@nmbu.no
🐦 Twitter: @li_yanxian
🐙 GitHub: @yanxianl
🏡 yanxianli.com

SKILLS

Programming



Bioinformatics

16S amplicon data analysis

Statistics

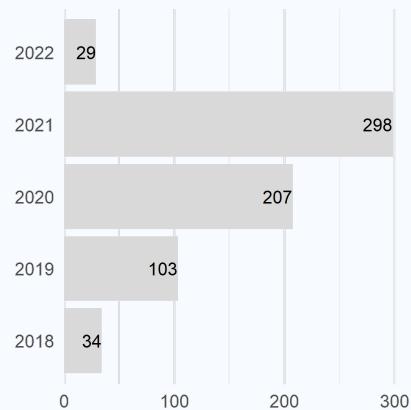
Mixed effects models
Multivariate statistics

- 2019
- Intestinal health and microbiota of post-smolt Atlantic salmon fed insect meal diet
Aquaculture Europe, October 2019 📍 Berlin, Germany
- 2018
- Intestinal health and function of pre-smolt Atlantic salmon fed insect meal diet
18th International Symposium on Fish Nutrition and Feeding, June 2018 📍 Las Palmas, Spain

RECENT PUBLICATIONS

- 2021
- Anatomy, immunology, digestive physiology and microbiota of the salmonid intestine: Knowns and unknowns under the impact of an expanding industrialized production. [doi:10.1016/j.fsi.2020.09.032](https://doi.org/10.1016/j.fsi.2020.09.032)
Fish Shellfish Immunol 107, 172-186.
 - Bjørgen H*, Li Y*, Kortner TM, Krogdahl A, Koppang EO.
 - *Co-first author
 - Differential response of digesta- and mucosa-associated intestinal microbiota to dietary insect meal during the seawater phase of Atlantic salmon. [doi:10.1186/s42523-020-00071-3](https://doi.org/10.1186/s42523-020-00071-3)
Animal Microbiome 3 (1), 1-18.
 - Li Y*, Bruni L*, Jaramillo-Torres A, Gajardo K, Kortner TM, Krogdahl A.
 - *Co-first author
 - Consistent changes in the intestinal microbiota of Atlantic salmon fed insect meal diets. [doi:10.1186/s42523-021-00159-4](https://doi.org/10.1186/s42523-021-00159-4)
Animal Microbiome 4 (1), 1-15.
 - Li Y, Gajardo K, Jaramillo-Torres A, Kortner TM, Krogdahl A.
- 2020
- Total replacement of fish meal with black soldier fly (*Hermetia illucens*) larvae meal does not compromise the gut health of Atlantic salmon (*Salmo salar*). [doi:10.1016/j.aquaculture.2020.734967](https://doi.org/10.1016/j.aquaculture.2020.734967)
Aquaculture 520, 734967.
 - Li Y, Kortner TM, Chikwati EM, Belghit I, Lock E-J, Krogdahl A.
 - Gut immune functions and health in Atlantic salmon (*Salmo salar*) from late freshwater stage until one year in seawater and effects of functional ingredients: A case study from a commercial sized research site in the Arctic region. [doi:10.1016/j.fsi.2020.09.019](https://doi.org/10.1016/j.fsi.2020.09.019)
Fish Shellfish Immunol 106, 1106-1119.
 - Wang J, Kortner TM, Chikwati EM, Li Y, Jaramillo-Torres A, Jakobsen JV, Ravndal J, Brevik OJ, Einen O, Krogdahl A.

- Citation = 682
- H-index = 12
- I10-index = 14



Data from Google Scholar

2019

- Black soldier fly larvae meal can replace fish meal in diets of sea-water phase Atlantic salmon (*Salmo salar*).
[doi:10.1016/j.aquaculture.2018.12.032](https://doi.org/10.1016/j.aquaculture.2018.12.032)

Aquaculture 503, 609-619.

• Belghit I, Liland NS, Gjesdal P, Biancarosa I, Menchetti E, Li Y, Waagbo R, Krogdahl A, Lock E-J.

- Removal of three proteinaceous antinutrients from soybean does not mitigate soybean-induced enteritis in Atlantic salmon (*Salmo salar*, L).
[doi:10.1016/j.aquaculture.2019.734495](https://doi.org/10.1016/j.aquaculture.2019.734495)

Aquaculture 514, 734495.

• Krogdahl A, Kortner TM, Jaramillo-Torres A, Gamil AAA, Chikwati E, Li Y, Schmidt M, Herman E, Hymowitz T, Teimouri SA.

- Gut health and vaccination response in pre-smolt Atlantic salmon (*Salmo salar*) fed black soldier fly (*Hermetia illucens*) larvae meal.
[doi:10.1016/j.fsi.2018.12.057](https://doi.org/10.1016/j.fsi.2018.12.057)

Fish Shellfish Immunol 86, 1106-1113.

• Li Y, Kortner TM, Chikwati EM, Munang'andu HM, Lock E-J, Krogdahl A.

2018

- Citric acid as a functional supplement in diets for juvenile turbot, *Scophthalmus maximus* L.: Effects on phosphorus discharge, growth performance, and intestinal health.
[doi:10.1016/j.aquaculture.2018.04.004](https://doi.org/10.1016/j.aquaculture.2018.04.004)

Aquaculture 495, 643-653.

• Dai J*, Li Y*, Yang P, Liu Y, Chen Z, Ou W, Ai Q, Zhang W, Zhang Y, Mai K.
• *Co-first author

- Dietary stachyose altered the intestinal microbiota profile and improved the intestinal mucosal barrier function of juvenile turbot, *Scophthalmus maximus* L. [doi:10.1111/are.13608](https://doi.org/10.1111/are.13608)

Aquaculture 486, 98-106.

• Yang P, Hu H, Liu Y, Li Y, Ai Q, Xu W, Zhang W, Zhang Y, Zhang Y, Mai K.

- Potential of insect-based diets for Atlantic salmon (*Salmo salar*).
[doi:10.1016/j.aquaculture.2018.03.016](https://doi.org/10.1016/j.aquaculture.2018.03.016)

Aquaculture 491, 72-81.

• Belghit I, Liland NS, Waagbo R, Biancarosa I, Pelusio N, Li Y, Krogdahl A, Lock E-J.

2017

- Dietary soya allergen β -conglycinin induces intestinal inflammatory reactions, serum-specific antibody response and growth reduction in a carnivorous fish species, turbot *Scophthalmus maximus* L.
[doi:10.1111/are.13224](https://doi.org/10.1111/are.13224)

Aquaculture Research 48, 4022-4037.

• Li Y*, Hu H*, Liu J, Yang P, Zhang Y, Ai Q, Xu W, Zhang W, Mai K.

• *Co-first author

- Effects of dietary glycinin on the growth performance, digestion, intestinal morphology and bacterial community of juvenile turbot, *Scophthalmus maximus* L. doi:[10.1016/j.aquaculture.2017.05.008](https://doi.org/10.1016/j.aquaculture.2017.05.008)

Aquaculture 479, 125-133.

· Li Y, Yang P, Zhang Y, Ai Q, Xu W, Zhang W, Zhang Y, Hu H, Liu J, Mai K.