

KWANGWOOK KIM, Ph.D.

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Department of Animal Science
University of California, Davis

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Davis, California 95616
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EDUCATION

- Ph.D., Animal Biology**, University of California, Davis, CA September 2021
Dissertation: Impacts of trace amounts of antibiotic and oligosaccharide-based polymer on weaned pigs GPA 3.93/4.0
Advisor: Yanhong Liu, Ph. D.
- M.S., Animal Biology**, University of California, Davis, CA June 2018
Thesis: Algae-derived β -glucan on gut health and immune responses in weaned pigs GPA 3.85/4.0
Advisor: Yanhong Liu, Ph. D.
- B.S., Animal Science & Biotechnology**, Chungnam National University, South Korea Aug 2014
Thesis: Mitigation strategies for greenhouse gas emission in pig production GPA 4.039/4.5

RESEARCH INTEREST

Evaluating the potential effects of a wide range of dietary ingredients and other factors on pig health.
The long-term goal is to help the animal industry deploy feed-based health technologies to improve animal health.

RESEARCH EXPERIENCE

- Postdoctoral Scholar**, Oct 2021–Present
Comparative Animal Nutrition & Physiology Laboratory
Department of Animal Science, University of California, Davis
- Participating in a multi-state project for developing protocol on measuring intestinal integrity/permeability in pigs
- Graduate Student Research Assistant**, Sep 2016–Sep 2021
Comparative Animal Nutrition & Physiology Laboratory
Department of Animal Science, University of California, Davis
- Conducted research projects to investigate the efficacy of antibiotic alternatives to promote growth performance and gut health of weaned pigs infected with a pathogenic *E. coli*
 - Trained 6 new graduate researchers & 10+ undergraduate research interns
- Short-term Visiting Scholar**, Mar 2016–Aug 2016
Comparative Animal Nutrition & Physiology Laboratory
Department of Animal Science, University of California, Davis
- Collaborated in setting up a new lab, animal research unit, and protocol development
 - Collaborated research project to evaluate the effect of early-life iron excess on systemic and CNS iron homeostasis, and social cognition using a neonatal pig model
- Full Time Research Assistant**, Mar 2014–Jan 2016
Nutritional Immunology & Microbiology, and Nutrigenomics Laboratory
Department of Animal Science & Biotechnology, Chungnam National University, Daejeon, Republic of Korea
- Conducted a research project on effects of dietary spray-dried plasma on productive performance and immune responses of lactating sows and their litters
 - Collaborated a research project on dietary β -mannanase on growth performance and health of weaned pigs

PUBLICATIONS

1. **Kim, K.**, C. Jinno, P. Ji, and Y. Liu. 2022. Trace amounts of antibiotic altered metabolomic and microbial profiles of weaned pigs infected with a pathogenic *E. coli*. *J. Anim. Sci. Biotechnol.* *Submitted*.
2. **Kim, K.**, Y. He, C. Jinno, L. Kovanda, X. Li, D. Bravo, E. Cox, and Y. Liu. 2022. Supplementation of oligosaccharide-based polymer enhanced growth and disease resistance of weaned pigs by modulating intestinal integrity and systemic immunity. *J. Anim. Sci. Biotechnol.* 13:10.
3. **Kim, K.**, B. Kim, H. Kyoung, Y. Liu, J. M. Campbell, M. Song, and P. Ji. 2021. Dietary spray-dried plasma supplementation in late-gestation and lactation enhanced productive performance and immune responses of lactating sows and their litters. *J. Anim. Sci. Technol.* 63:1076-1085.
4. **Kim, K.**, Y. He, C. Jinno, L. Kovanda, X. Li, M. Song, and Y. Liu. 2021. Trace amounts of antibiotic exacerbated diarrhea and systemic inflammation of weaned pigs infected with a pathogenic *E. coli*. *J. Anim. Sci.* 99:skab073.
5. **Kim, K.**, P. Ji, M. Song, T. M. Che, D. Bravo, J. E. Pettigrew, and Y. Liu. 2020. Dietary plant extracts modulate gene expression profiles in alveolar macrophages of pigs experimentally infected with porcine reproductive and respiratory syndrome virus. *J. Anim. Sci. Biotechnol.* 11:74.
6. He, Y., **K. Kim**, L. Kovanda, M. Song, J. Chase, X. Li, B. Tan, and Y. Liu. 2020. *Bacillus subtilis*: a potential growth promoter in weaned pigs in comparison to carbadox. *J. Anim. Sci.* 98:skaa290.
7. He, Y., C. Jinno, **K. Kim**, Z. Wu, B. Tan, X. Li, R. Whelan, and Y. Liu. 2020. Dietary *Bacillus spp.* enhanced growth and disease resistance of weaned pigs by modulating intestinal microbiota and systemic immunity. *J. Anim. Sci. Biotech.* 11:101.
8. Doan, N., Y. Liu, X. Xiong, **K. Kim**, Z. Wu, D. M. Bravo, A. Blanchard, and P. Ji. 2020. Organic selenium supplement partially alleviated diquat-induced oxidative insults and hepatic metabolic stress in nursery pigs. *Br. J. Nutr.* 124:23-33.
9. **Kim, K.**, Y. He, X. Xiong, A. Ehrlich, X. Li, H. Raybould, E. R. Atwill, E. A. Maga, J. Jørgensen, and Y. Liu. 2019. Dietary supplementation of *Bacillus subtilis* influenced intestinal health of weaned pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci. Biotechnol.* 10:52.
10. Xiong, X., B. Tan, M. Song, P. Ji, **K. Kim**, and Y. Liu. 2019. Nutritional intervention for the intestinal development and health of weaned pigs. *Front. Vet. Sci.* 6:46.
11. **Kim, K.**, A. Ehrlich, V. Perng, J. A. Chase, H. Raybould, X. Li, E. R. Atwill, R. Whelan, A. Sokale, and Y. Liu. 2019. Algae-derived β -glucan enhanced gut health and immune responses of weaned pigs experimentally infected with a pathogenic *E. coli*. *Anim. Feed Sci. Technol.* 248:114-125.
12. Ji, P., B. Lønnerdal, **K. Kim**, and C. N. Jinno. 2019. Iron oversupplementation causes hippocampal iron overloading and impairs social novelty recognition in nursing piglets. *J. Nutr.* nxy227.
13. Seo J., W. Kim, J. Kim, J. K. Kim, S. C. Kim, Y. Jang, K. Jang, **K. Kim**, B. Kim, S. Park, I. Park, M. K. Kim, K. S. Seo, H. B Kim, I. H. Kim, S. Seo, and M. Song. 2014. Effects of palm kernel expellers on growth performance, nutrient digestibility, and blood profiles of weaned pigs. *Asian-Australas. J. Anim. Sci.* 28(7):987-92.
14. Kim J., J. Seo W. Kim, H. M. Yun, S. C. Kim, Y. Jang, K. Jang, **K. Kim**, B. Kim, S. Park, I. Park, M. K. Kim, K. S. Seo, H. B Kim, I. H. Kim, S. Seo, and M. Song. 2014. Effects of palm kernel expellers on productive performance, nutrient digestibility, and white blood cells of lactating sows. *Asian-Australas. J. Anim. Sci.* 28(8): 1150-4.
15. Baidoo S. K., D. Y. Kil, J. N. Kim, Y. Liu, J. Kim, **K. Kim**, Y. Kim, M. Song. 2014. Productive performance of sows fed increasing levels of distillers dried grains with soluble (DDGS) across parities. *Rev. Colomb. Cienc. Pecu.* 27:171-177.

PUBLICATIONS (IN PREPARATION)

1. Effects of trace amounts of antibiotic on gene expression profiles in ileal mucosa of weaned pigs infected with a pathogenic *E. coli*.
2. Effects of *Bacillus subtilis* on colon digesta metabolomic and fecal microbiota profiles of weaning pigs experimentally infected with a pathogenic *E. coli*.

ABSTRACTS

1. **Kim, K.**, C. Jinno, and Y. Liu. 2021. Trace amounts of antibiotic in feed modified fecal microbiota of weaned pigs experimentally infected with a pathogenic *Escherichia coli*. International Association for Food Protection 2021 Annual Meeting.
2. **Kim, K.**, Y. He, C. Jinno, S. Yang, X. Li, D. Bravo, E. Cox, and Y. Liu. 2021. Effects of Oligosaccharide-based polymer on blood profiles in weaning pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci.* 99(Suppl_1):167-168.

KWANGWOOK KIM | CURRICULUM VITAE

3. **Kim, K.**, Y. He, C. Jinno, S. Yang, X. Li, D. Bravo, E. Cox, and Y. Liu. 2021. Effects of oligosaccharide-based polymer on growth performance, diarrhea, and fecal β -hemolytic coliforms in weanling pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci.* 99(Suppl_1):90.
4. Wong, B., Y. He, **K. Kim**, S. Xu, C. Lingga, X. Li, E. Wall, and Y. Liu. 2021. Dietary supplementation of botanicals enhanced growth performance and disease resistance of weaned pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci.* 99(Suppl_1):29.
5. **Kim, K.**, S. Jang, and Y. Liu. 2020. Effects of very low-dose antibiotics on gene expression profiles in ileal mucosa of weaned pigs infected with a pathogenic *E. coli*. *J. Anim. Sci.* 98(Suppl_4):286.
6. **Kim, K.**, Y. He, X. Xiong, A. Ehrlich, X. Li, H. Raybould, E. R. Atwill, E. A. Maga, J. Jørgensen, and Y. Liu. 2020. **Young Scholar Presentation:** Dietary supplementation of *Bacillus subtilis* influenced intestinal health and metabolomic profiles of weaned pigs experimentally infected a pathogenic *E. coli*. *J. Anim. Sci.* 98(Suppl_3):76-77.
7. **Kim, K.**, and Y. Liu. 2020. Effects of *Bacillus subtilis* on colon digesta metabolomic profiles in weanling pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci.* 98(Suppl_3):203
8. **Kim, K.**, Y. He, C. Jinno, S. Yang, M. Song, P. Ji, and Y. Liu. 2019. Effects of antibiotics on serum metabolomic profiles in weanling pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci.* 97(Suppl_3):232.
9. **Kim, K.**, Y. He, C. Jinno, S. Yang, M. Song, P. Ji, and Y. Liu. 2019. Effects of antibiotics on growth performance, diarrhea, bacterial translocation, and blood profiles in weanling pigs experimentally infected a pathogenic *E. coli*. California Animal Nutrition Conference Proceedings. p.102.
10. Kim, S., B. Kim, J. Kim, **K. Kim**, J. J. Lee, J. Kang, D. Mun, J. Baek, S. Kim, Y. Liu, J. Choe, and M. Song. 2019. Dietary spray dried plasma on systemic immune responses of lactating sows and their litters. California Animal Nutrition Conference Proceedings. p.104.
11. He, Y., **K. Kim**, L. Kovanda, C. Jinno, M. Song, X. Li, and Y. Liu. 2019. Effects of *Bacillus subtilis*. probiotics on growth performance, diarrhea, and intestinal health of weaned pigs experimentally infected with an enterotoxigenic *Escherichia coli*. California Animal Nutrition Conference Proceedings. p.98.
12. **Kim, K.**, Y. He, C. Jinno, S. Yang, M. Song, P. Ji, and Y. Liu. 2019. Effects of antibiotics on growth performance, diarrhea, and bacterial translocation in weanling pigs experimentally infected a pathogenic *E. coli*. *J. Anim. Sci.* 97(Suppl_2):53.
13. **Kim, K.**, Y. He, C. Jinno, S. Yang, M. Song, P. Ji, and Y. Liu. 2019. Effects of antibiotics on blood profiles in weanling pigs experimentally infected a pathogenic *E. coli*. *J. Anim. Sci.* 97(Suppl_2):78.
14. Jinno, C., **K. Kim**, M. Song, P. Ji, E. Maga, and Y. Liu. 2019. Supplementation of *Bacillus subtilis* modified fecal microbiota of weaning pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci.* 97(Suppl_2):81.
15. He, Y., **K. Kim**, C. Jinno, Z. Wu, R. Whelan, K. Doranalli, and Y. Liu. 2019. Effects of *Bacillus spp.* probiotics on systemic immunity and intestinal health of weaned pigs experimentally infected with an enterotoxigenic *Escherichia coli*. *J. Anim. Sci.* 97(Suppl_2):74-75.
16. He, Y., **K. Kim**, C. Jinno, L. Kovanda, S. Yang, M. Song, X. Li, and Y. Liu. 2019. Effects of *Bacillus subtilis* on growth performance, diarrhea, and fecal β -hemolytic coliforms of weaned pigs experimentally infected with an enterotoxigenic *Escherichia coli*. *J. Anim. Sci.* 97(Suppl_2):79-80.
17. Kim, S., B. Kim, J. Kim, **K. Kim**, J. J. Lee, J. Kang, D. Mun, J. Baek, S. Kim, Y. Liu, J. Choe, and M. Song. 2019. Growth performance and immune responses of weaned pigs from lactating sows fed dietary spray dried plasma. *J. Anim. Sci.* 97(Suppl_2):213-214.
18. Kim, B., J. Kim, **K. Kim**, S. Kim, J. J. Lee, J. Kang, D. Mun, J. Baek, S. Kim, P. Ji, J. Choe, and M. Song. 2019. Dietary spray dried plasma on immune responses of lactating sows and their litters. *J. Anim. Sci.* 97(Suppl_2):187.
19. **Kim, K.**, R. Whelan, A. Sokale, and Y. Liu. 2018. Effects of dietary β -glucan on intestinal gene expression of weanling pigs experimentally infected with a pathogenic *E. coli*. *J. Anim. Sci.* 96(Suppl_3):321-322.
20. He, Y., **K. Kim**, C. Jinno, Z. Wu, R. Whelan, K. Doranalli, and Y. Liu. 2018. Effects of *Bacillus spp.* probiotics on growth performance, diarrhea, and systemic immunity of weaned pigs experimentally infected with an enterotoxigenic *Escherichia coli*. *J. Anim. Sci.* 96(Suppl_3):297.
21. **Kim, K.**, Y. He, X. Xiong, C. Jinno, A. Ehrlich, X. Li, J. Jørgensen, L. Raff, and Y. Liu. 2018. Supplementation of *Bacillus subtilis* enhanced growth rate and gut barrier function of weanling pigs experimentally infected with F18 *Escherichia coli*. California Animal Nutrition Conference Proceedings. p.144.
22. He, Y., **K. Kim**, C. Jinno, Z. Wu, R. Whelan, K. Doranalli, and Y. Liu. 2018. Effects of *Bacillus spp.* probiotics on growth performance, diarrhea, and systemic immunity of weaned pigs experimentally infected with an enterotoxigenic *Escherichia coli*. California Animal Nutrition Conference Proceedings. p.158.

KWANGWOOK KIM | CURRICULUM VITAE

23. **Kim, K.**, C. Jinno, A. Ehrlich, X. Li, J. N. Joergensen, L. Raff, and Y. Liu. 2018. Effects of *Bacillus subtilis* on growth performance, diarrhea, and gut health of weanling pigs experimentally infected with F18 *Escherichia coli*. *J. Anim. Sci.* 96(Suppl_2):68-69.
24. Doan, N., P. Ji, **K. Kim**, D. Bravo, and Y. Liu. 2018. Supplementation of organic and inorganic selenium on oxidative stress of weaned pigs¹. Growth performance and immune responses. *J. Anim. Sci.* 96(Suppl_2):146-147.
25. Doan, N., P. Ji, **K. Kim**, D. Bravo, and Y. Liu. 2018. Supplementation of organic and inorganic selenium on oxidative stress of weaned pigs². Antioxidant capacity. *J. Anim. Sci.* 96(Suppl_2):89.
26. **Kim, K.**, A. Ehrlich, V. Perng, J. Chase, H. Raybould, X. Li, E. R. Atwill, R. Whelan, A. Sokale, and Y. Liu. 2017. Effects of dietary β -glucan on growth performance, diarrhea, and gut permeability of weanling pigs experimentally infected with a pathogenic *Escherichia coli*. *J. Anim. Sci.* 95(Suppl_4):34-35.
27. Ji, P., S. McClorry, B. Lönnerdal, C. Slupsky, **K. Kim**, and C. Jinno. Early-life iron supplementation alters whole body iron homeostasis, serum metabolites, and social novelty discrimination in pre-weanling pigs. *The FASEB Journal* 31(Suppl_1):436.7.
28. Jang, K., **K. Kim**, S. Kim, J. Kim, B. Kim, S. Park, J. J. Lee, J. H. Lee, S. W. Kim, and M. Song. 2017. Effects of dietary supplementation of β -mannanase on immune responses in nursery pigs. *J. Anim. Sci.* 95(Suppl_4):32.
29. Kim, B., I. H. Park, J. Kim, S. Kim, J. J. Lee, **K. Kim**, K. Jang, S. Oh, S. Oh, Y. Kim, J. Y. Cho, S. H. Cho, and M. Song. 2017. Effects of dietary protease on gut microbiota of weaned pigs. *J. Anim. Sci.* 95(Suppl_4):38.
30. Lee, J. J., J. Kim, B. Kim, S. Kim, **K. Kim**, J. Choe, Y. Kim, J. Park, I. H. Park, J. Y. Cho, and M. Song. 2017. Effects of carbohydrase on productive performance and white blood cells of lactating sows. *J. Anim. Sci.* 95(Suppl_4):51-52.
31. **Kim, K.**, V. Perng, J. Chase, X. Li, E.R. Atwill, R. Whelan, A. Sokale, and Y. Liu. 2017. Effects of dietary β -glucan on systemic immunity of weanling pigs experimentally infected with a pathogenic *E. coli*. *California Animal Nutrition Conference Proceedings*. p.282.
32. Kim, J., Y. Jang, S. Kim, W. Kim, K. Jang, **K. Kim**, B. Kim, S. Park, I. Park, Y. H. Kim, J. Seo, Y. Kim, S. Seo, and M. Song. 2015. Effects of palm kernel expellers on productive performance, nutrient digestibility, and white blood cells of lactating sows. *J. Anim. Sci.* 93(Suppl_1):415.
33. Jang, Y., J. Kim, S. Kim, W. Kim, K. Jang, **K. Kim**, B. Kim, S. Park, I. Park, Y. H. Kim, J. Seo, Y. Kim, S. Seo, and M. Song. 2015. Effects of palm kernel expellers on growth performance, nutrient digestibility, and blood profiles of weaned pigs. *J. Anim. Sci.* 93(Suppl_1):416.
34. Kim, S., Y. Jang, J. Kim, K. Jang, **K. Kim**, B. Kim, S. Park, I. Park, W. Kim, Y. H. Kim, J. C. Park, Y. Kim, S. Seo, and M. Song. 2015. Effects of palm kernel expellers on growth performance nutrient digestibility, carcass characteristics, and loin muscle quality of growing-finishing pigs. *Proceedings of 2015 Annual Congress of KSAST*. Page 59.
35. Bae, K., J. Goo, J. Kim, Y. Jang, S. Park, K. Jang, B. Kim, **K. Kim**, and M. Song. 2014. Effects of pathogenic *Escherichia coli* on diarrhea, growth performance, and blood profile of weaned pigs. *Proceedings of 2014 Annual Congress of KSAST*. Page 246.

AWARDS&HONORS

Awards

1. **Stahly/Peo Outstanding Graduate Student in Swine Nutrition Award**,
2022 ASAS Annual Midwest Meeting, March 14-16, 2019, Omaha, Nebraska
2. **Research Paper Award, 3rd place (Graduate Student Poster Competition: Ph.D. Division)**,
2020 ASAS-CSAS-WSASAS Virtual Annual Meeting and Trade Show, July19-23, 2020
3. **Animal Science Young Scholar Award (Invited speaker)**,
2020 ADSA-ASAS Annual Midwest Meeting, Mar 2-4, 2020, Omaha, Nebraska
4. **Research Paper Award, 1st place (Graduate Student Oral Competition: Ph.D. Divisions)**,
2019 ADSA-ASAS Annual Midwest Meeting, March 11-13, 2019, Omaha, Nebraska
5. **Research Paper Award, 1st place (Poster Competition)**,
2018 California Animal Nutrition Conference, May 2-3, 2018, Fresno, California
6. **Research Paper Award, 3rd place (Graduate Student Poster Competition: M.S. Division)**,
2017 ASAS-CSAS Annual Meeting & Trade Show, July 8-12, 2017, Baltimore, Maryland
7. **Research Paper Award, 2nd place (Poster Competition)**,
2017 California Animal Nutrition Conference, May 10-11, 2017, Fresno, California

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8. **Research Paper Award of Excellence (Poster Competition),**
2014 Annual Congress of Korean Society of Animal Sciences and Technology, Hongcheon, Republic of Korea

Fellowships/Scholarships

1. **California Animal Nutrition Conference Scholarship Winner (Invited speaker),**
2021 California Animal Nutrition Conference, Sep 30-Oct 1, 2021, Sacramento, California
2. **Korean Life Scientists in the Bay Area (KOLIS) Fellowship (Invited speaker),**
KOLIS Virtual Annual Conference, June 25-26, 2021
3. **Humphries Fellowship,**
Department of Animal Science, University of California, Davis, 2021
4. **Graduate Student Travel Award,**
Animal Biology Graduate Group, University of California, Davis
 - 2021 American Society of Animal Science Midwest Virtual Meeting, March 8-11, 2021
5. **Ursula K Abbott Animal Science Graduate Student Travel Award,**
Department of Animal Science, University of California, Davis
 - 2020 ASAS-CSAS-WSASAS Annual Meeting & Trade Show, July 19-23, 2020, Virtual Meeting
 - 2019 ASAS-CSAS Annual Meeting & Trade Show, July 8-11, Austin, Texas
 - 2019 ADSA/ASAS Midwestern meeting, March 11-13, 2019, Omaha, Nebraska
 - 2018 ASAS-CSAS Annual Meeting & Trade Show, July 8-12, 2018, Vancouver, Canada
 - 2017 ASAS-CSAS Annual Meeting & Trade Show, July 8-12, 2017, Baltimore, Maryland
6. **Henry A. Jastro Graduate Research Award,**
Animal Biology Graduate Group, University of California, Davis, Fall 2019, 2020
7. **McOmie Fellowship Award,**
Department of Animal Science, University of California, Davis, Fall 2019
8. **Animal Biology Graduate Program Fellowship Award,**
Animal Biology Graduate Group, University of California, Davis,
2017, 2018, 2019, and 2020 Academic Year
9. **Rosenberg GSR Award,**
Department of Animal Science, University of California, Davis, 2017
10. **The Honor Student (Full Remission of Tuition Fees),**
Department of Animal Science & Biotechnology, Chungnam National University,
Daejeon, Republic of Korea, 2009, 2012, 2013, and 2014 Academic Year

TEACHING EXPERIENCE

Guest Lecture,

- Animal Biochemistry & Metabolism (483 undergrads), Feb 2020
Department of Animal Science, University of California, Davis, CA
-Review of endocrine disorders associated with environmental toxicants
and possible involved mechanisms
- Gyeongnam National University of Science and Technology (25 grads) Aug 2018
- Chungnam National University, Republic of Korea (15 grads) Aug 2018
-Algae-derived β -glucan on gut health and immune responses in weaned pigs

Teaching Assistant,

Department of Animal Science, University of California, Davis, CA

- Animal Nutrition Laboratory (ANS 134) Mar–Jun 2021
- Animal Nutrition Laboratory (ANS 134) Jan–Mar 2021
- Intro to Animal Science 002 (ANS 002) Mar–Jun 2020
- Animal Biochemistry & Metabolism (ABI 103) Jan–Mar 2020
- Animal Nutrition Laboratory (ANS 134) Jan–Mar 2020
- Domestic Animal Prod Laboratory (ANS 41L) Jan–Mar 2019
- Animal Nutrition Laboratory (ANS 134) Jan–Mar 2019
- Intro to Animal Science 002 (ANS 002) Mar–Jun 2018
- Animal Nutrition Laboratory (ANS 134) Jan–Mar 2018
- Intro to Animal Science 002 (ANS 002) Mar–Jun 2017

KWANGWOOK KIM | CURRICULUM VITAE

LEADERSHIP & SERVICE EXPERIENCE

- **Ad Hoc Reviewer,** 2021–Present
 - Journal of Animal Science (ISSN: 1525-3163)
- **Graduate Mentor,** Animal Research Projects 2017–2021
 - Department of Animal Science, University of California, Davis
 - Mentored 6 new graduate researchers & 10+ undergraduate research interns
 - Hands on training and demonstration of animal care, safe handling, and specimen collection; Supervising experimental designs, specimen processing, and data analysis
- **Student Volunteer,** Picnic Day (Annual open house for UC Davis) 2017, 2018
 - Supervised assistant at Swine Facility, University of California, Davis
- **Departmental Student Representative,** 2013
 - Department of Animal Science & Biotechnology, Chungnam National University, Daejeon, Republic of Korea
 - Managed memorial services for laboratory animals
 - Hosted field day and sports day
- **Volunteer,** Community Service 2011–2012
 - Voluntary activities for teaching English at Dongduchon Elementary School, Dongduchon, Republic of Korea
- **Military Service,** Enlisted 2010–2012
 - Charlie Company, The Crusader Battalion, 72nd Armor Regiment, The 1st brigade Combat Team, 2nd Infantry Division, the United States Army at Camp Casey, Republic of Korea
 - **Certificate of Commendation**
 - Representative at Republic of Korea-United States Joint Military Exercise
 - **The Army Commendation Medal**
 - M1A1/A2 Abrams Tank Gunner and Senior Squad Leader
 - **The Army Achievement Medal**
 - Meritorious Achievement during Community Service
 - **“Manchu Mile” Certificate Medal**

PROFESSIONAL AFFILIATIONS

- American Society of Animal Science
- American Society of Animal Science-Midwest Section
- California Grain & Feed Association (California Animal Nutrition)

REFERENCES

Yanhong Liu, Associate Professor, Department of Animal Science
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