

# Md Elias Uddin, PhD

## Assistant Professor

Department of Animal Science, University of Connecticut

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### CURRENT POSITION

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Aug. 2023- present     **Assistant Professor** (9-months tenure-track, 60% Research and 40% Teaching)  
Department of Animal Science, University of Connecticut

### PAST APPOINTMENT

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Aug. 2021- July 2023     **Assistant Professor** (9-months tenure-track, 70% Research and 30% Teaching)  
Dairy and Food Science Department, South Dakota State University

Jan. 2020- July 2021     **Postdoctoral Research Scholar, University of California-Davis**  
Department of Animal Science, Advisor: Prof. Ermias Kebreab  
**Project 1:** Evaluating the impact of feed additive supplementation in dairy cows on milk carbon footprint in the United States (Funded by Dairy Management Inc.),  
**Project 2:** Modeling the growth response of non-ruminants fed methionine in different forms (Funded by Adisseo).

### EDUCATION

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Dec. 2019     **PhD in Dairy Nutrition and Systems Modeling**  
University of Wisconsin-Madison, Madison, WI, USA  
**Dissertation:** Evaluation of breed and diet on partial carbon footprint of milk produced in conventional system of Wisconsin  
**Dissertation Committee:** Prof. Michel Wattiaux (Chair), Prof. Rebecca Larson, Prof. Randy Shaver, Prof. Randy Jackson, and Prof. Kent Weigel

Jun. 2016     **European Master in Animal Breeding and Genetics (EMABG)**  
Wageningen University and Research, the Netherlands and Norwegian University of Life Sciences, Norway  
Grade: Excellent grade in most coursework and thesis

Jun. 2012     **MS in Dairy Science (Dairy Cattle Nutrition)**  
Bangladesh Agricultural University, Bangladesh  
Merit rank in the class: First (GPA: 3.945/4.0)

Apr. 2010     **BS in Animal Husbandry**  
Bangladesh Agricultural University, Bangladesh  
Merit rank in the class: First (GPA: 3.893/4.0)

## RESEARCH EXPERIENCES AS GRADUATE RESEARCH ASSISTANT

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- 2016-2019 **Research Assistant, University of Wisconsin-Madison**  
Department of Dairy Science, Advisor: Prof. Michel Wattiaux  
My PhD dissertation project (funded by USDA-NIFA) demonstrated that:
- ✓ Forage level in lactating dairy cows' diet has greater impact on enteric methane and subsequent manure chain greenhouse gas emissions than forage sources.
  - ✓ Effects of dietary forage on enteric and manure chain greenhouse gas emissions did not depend on cow breed.
  - ✓ Enteric emission mitigation strategies need to be evaluated using integrated approach at whole-farm scale than at animal scale evaluations to avoid misleading conclusions.
- 2015-2016 **Research Fellow, Norwegian University of Life Sciences**  
Department of Animal & Aquacultural Sciences, Advisor: Prof. Theodorus Meuwissen
- ✓ My thesis project demonstrated that dry matter intake data of dairy cows collected from nutritional experiment could be used for genetic evaluations after adjusting for heterogeneity.
- 2014-2015 **Research Fellow, Wageningen University & Research**  
Animal Breeding and Genetics chair group, Advisor: Marleen Visker (Researcher)
- ✓ My thesis project demonstrated that FTIR-based sensor installed within automatic milking system could be used as an alternative method of respiration chamber to measure enteric methane.
- 2012-2014 **Lecturer, Department of Dairy Science, Bangladesh Agricultural University**
- ✓ Taught ruminant nutrition, and elementary and applied dairy cattle production courses.
  - ✓ Mentored graduate and undergraduate students.
- 2011-2012 **Research Fellow, Bangladesh Agricultural University**  
Department of Dairy Science, Advisor: Prof. M. A. Samad Khan
- ✓ My thesis project demonstrated that chopping of fresh-cut long forages and grinding of corn grains could help to improve the digestibility and growth performances of crossbred Holstein heifers.

## REFEREED PUBLICATIONS

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1. **Uddin ME**, Tricarico JM, and Kebreab E. 2022. Impact of nitrate and 3-nitrooxypropanol on the carbon footprint of milk produced in confined feeding systems across regions in the United States: A life cycle analysis. *Journal of Dairy Science*. 105: 5074-5083. <https://doi.org/10.3168/jds.2021-20988>.
2. **Uddin ME**, van Lingen HJ, da Silva-Pires PG, Batouon-Alavo D, Friedrich Rouffineau, Kebreab E. 2022. A meta-analysis using Bayesian approach: Modeling growth responses of non-ruminants fed different forms of synthetic methionine precursors. *Poultry Science*. 2022: 101762. <https://doi.org/10.1016/j.psj.2022.101762>.
3. Islam MZ, **Uddin ME**, Rahman MT, Islam MA, and Rashid MH. 2021. Isolation and characterization of dominant lactic acid bacteria from raw goat milk: Assessment of probiotic

potential and starter culture properties. *Small Ruminant Research*. 205:106532. <https://doi.org/10.1016/j.smallrumres.2021.106532>.

4. **Uddin ME**, Aguirre-Villegas HA, Larson RA and Wattiaux MA. 2021. Carbon footprint of milk from Holstein and Jersey cows fed low or high forage diet with alfalfa silage or corn silage as the main forage source. *Journal of Cleaner Production*. 298:126720. <https://doi.org/10.1016/j.jclepro.2021.126720> .
5. **Uddin ME**, and Wattiaux MA. 2021. Effects of source and level of forage in the diet on *in-vitro* ammonia emission from manure of Holstein and Jersey dairy cows. *JDS Communications*. 2:16-20. <https://doi.org/10.3168/jdsc.2020-0012>.
6. **Uddin ME**<sup>†</sup>, and Kebreab E. 2020. Review: Impact of food and climate change on pastoral industries. *Frontiers in Sustainable Food Systems*, 4:543403. <https://doi.org/10.3389/fsufs.2020.543403>.
7. **Uddin ME**, Larson RA and Wattiaux MA. 2020. Effects of dairy cow breed and dietary forage on greenhouse gas emissions from manure during storage and after field application. *Journal of Cleaner Production*; 270:122461. <https://doi.org/10.1016/j.jclepro.2020.122461>.
8. **Uddin ME**, Santana OI, Weigel KA and Wattiaux MA. 2020. Enteric methane emissions, production performances, rumen characteristics, nutrient digestibility, nitrogen and energy balance of Holstein and Jersey cows fed dietary forage neutral detergent fiber at 2 levels from 2 sources. *Journal of Dairy Science*; 103:6087-6099. <https://doi.org/10.3168/jds.2019-17599>.
9. Wattiaux MA, **Uddin ME**, Letelier P, Jackson RD, and Larson RA. 2019. Invited Review: Emission and mitigation of greenhouse gases from dairy farms: The cow, the manure, and the field. *Applied Animal Science (formerly known as the Professional Animal Scientist)*; 35:238-254. <https://doi.org/10.15232/aas.2018-01803>.
10. **Uddin ME**, Meuwissen T, and Veerkamp RF. 2018. Adjusting for heterogeneity of experimental data in genetic evaluation of dry matter intake in dairy cattle. *Journal of Animal Breeding and Genetics*; 135:28-36. <https://doi.org/10.1111/jbg.12300>.
11. Reyad MA, Sarker MAH, **Uddin ME**, Habib R, and Rashid MH, 2016. Effect of heat stress on milk production and its composition of Holstein-Friesian crossbred dairy cows. *Asian Journal of Medical and Biological Research*: 2:190-195. <https://doi.org/10.3329/ajmbr.v2i2.29060>.
12. Yesmin S, **Uddin ME**, Chacrabati R, and Al-Mamun M. 2013. Effect of methionine supplementation on the growth performance of rabbit. *Bangladesh Journal of Animal Science*; 42: 40-43. <https://doi.org/10.3329/bjas.v42i1.15777>.
13. Islam MA, **Uddin ME**, Jahan R, Wadud A, and Sarkar MM. 2013. Metabolites in the milk of Buffalo, Holstein cross, Indigenous and Red Chittagong cattle of Bangladesh. *Bangladesh Journal of Animal Science*; 42:152-157. <https://doi.org/10.3329/bjas.v42i2.18504>.
14. Alam MS, Rashid MH, **Uddin ME** and Asaduzzaman M. 2012. Effect of supplementation of fish meal on growth and reproductive performance of crossbred heifers. *Journal of the Bangladesh Agricultural University*; 10: 261-266. <http://dx.doi.org/10.3329/jbau.v10i2.14917>.

## **MANUSCRIPTS IN-REVIEW/IN-PREPARATION (\*Co-First Author; †Corresponding author)**

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15. Santana OI, **Uddin ME**, and Wattiaux MA. Feeding behavior of Holstein and Jersey cows fed diets with varying levels of forages mainly from alfalfa silage or corn silage (**In-preparation**).
16. Santana OI, **Uddin ME\***, and Wattiaux MA. Relationship between feeding behavior and enteric emissions and nitrogen excretions in Holstein and Jersey cows fed low or high forage diets based on alfalfa silage or corn silage (**In-preparation**).
17. M. Bulnes, J. Bonilla, M. Suazo, G. Begalli, A. F. Souza, J. Lefler, L. Marotz, J. Osorio, **Uddin ME†**. Effects of supplementing rumen direct-fed endomicrobials to dairy cows during pre-and postpartum on lactation performances and nutrient utilization efficiency (**In-preparation**).
18. M. Bulnes, J. Bonilla, M. Suazo, G. Begalli, A. F. Souza, J. Lefler, L. Marotz, J. Osorio, **Uddin ME†**. Ruminal microbial dynamics of lactating dairy cows supplemented with rumen direct-fed endomicrobials (**In-preparation**).
19. S. Ahmed, M. R. A. Redoy, **Uddin ME†**. Enteric emissions and milk fatty acid profile of cows fed diets with varying level of non-forage fiber and supplemented with isoacids (**In-preparation**).

## **CONFERENCE ABSTRACTS (Selected)**

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1. Redoy MRA, Ahmed S, Bulnes ML, Kleinschmit DH, **Uddin ME**, 2023. Supplementation of isoacids on feeding behaviors and enteric methane emissions of lactating cows fed diets at varying forage fiber level. American Dairy Science Association (ADSA) Meeting-2023 held at Ottawa, Ontario, Canada, 25-28 June, 2023.
2. Ahmed S, Redoy MRA, Bulnes ML, Bonilla JB, Kleinschmit DH, **Uddin ME**, 2023. Effects of isoacids supplementation in lactating cows' diet varying in forage fiber level on performances, feed efficiency and milk fatty acids profile. American Dairy Science Association (ADSA) Meeting-2023 held at Ottawa, Ontario, Canada, 25-28 June, 2023.
3. Bulnes ML, Lefler J, Marotz C, Halfen J, Fernandes T, Embree M, Osorio J, **Uddin ME**, 2023. Effects of supplementing native rumen microbes on rumen fermentation and bacterial abundance in transition and mid-lactation Holstein cows. American Dairy Science Association (ADSA) Meeting-2023 held at Ottawa, Ontario, Canada, 25-28 June, 2023.
4. Bulnes ML, Lefler J, Marotz C, Trevisi E, Embree M, Osorio J, **Uddin ME**, 2023. Effects of supplementing native rumen microbes on lactation performances and blood biomarkers in transition and mid-lactation Holstein cows. American Dairy Science Association (ADSA) Meeting-2023 held at Ottawa, Ontario, Canada, 25-28 June, 2023.
5. Bulnes ML, Bonilla JB, Suazo M, Begalli G, Souza AF, Lefler J, Marotz C, Osorio J, **Uddin ME**, 2022. Effects of supplementing rumen direct-fed endomicrobials to dairy cows during pre-and postpartum on milk production and composition. American Dairy Science Association (ADSA) Meeting-2022 held at Kansas City, Missouri, 19-22 June, 2022.
6. **Uddin ME**, van Lingen HJ, da Silva-Pires PG, Batonon-Alavo D, Friedrich Rouffineau, Kebreab E. 2022. A meta-analysis using Bayesian approach: Modeling growth responses of non-ruminants fed different forms of synthetic methionine precursors. World Poultry Congress (WPC), Paris, France, 7-11 August 2022.

7. **Uddin ME**, Tricarico JM, Wang Y, and Kebreab E. Impact of feed additives on the farmgate carbon footprint of milk across regions in the United States. Presented at the American Dairy Science Association (ADSA) Annual Meeting 2021.
8. Santana OI, **Uddin ME** and Wattiaux MA. Effects of source and level of forage neutral detergent fiber on feeding behavior of Holstein and Jersey cows. Presented at the American Dairy Science Association (ADSA) Annual Meeting 2021.
9. **Uddin ME**, Aguirre-Villegas HA, Laron RA, and Wattiaux MA. 2020. Effects of dietary forage level and source on partial carbon footprint of milk in Holsteins and Jerseys. Proceedings of the American Dairy Science Association (ADSA) Meeting, West Palm Beach, Florida, **USA**, June 21-24, 2020 (Oral presentation-virtual). <https://www.adsa.org/Meetings/2020-Annual-Meeting/Abstracts>.
10. **Uddin ME**, Santana OI and Wattiaux MA. 2019. Nitrogen and energy balance of primiparous Holstein and Jersey cows fed 2 levels and 2 sources of forage neutral detergent fiber. Proceedings of the ADSA Meeting, Cincinnati, Ohio, **USA**, June 24-27, 2019 (Poster). Journal of Dairy Science; 102 (Suppl. 1): 223. <https://www.adsa.org/Meetings/Past-Meetings/2019>.
11. **Uddin ME**, Santana OI, Wickert T, D'Huvelter D and Wattiaux MA. 2018. Enteric methane emission of lactating Holstein and Jersey cows fed two levels and two sources of forage neutral detergent fiber. Proceedings of the 10th International Symposium on the Nutrition of Herbivores, Clermont-Ferrand, **France**, September 2-6, 2018 (Oral presentation). Advances in Animal Biosciences; 9(3): 363. <https://doi.org/10.1017/S2040470018000146>.
12. **Uddin ME**, Santana OI, D'Huvelter D, Wickert T and Wattiaux MA. 2018. Feed, nitrogen and energy conversion efficiencies of lactating Holstein and Jersey cows fed two levels and two sources of forage neutral detergent fiber. Proceedings of the ADSA Meeting, Knoxville, TN, **USA**, June 24-27, 2018 (Poster). Journal of Dairy Science; 101 (Suppl. 2): 312. <https://www.adsa.org/2018/Abstract>.
13. Santana OI, **Uddin ME** and Wattiaux MA. 2018. Effects of source and level of forage neutral detergent fiber on feeding behavior of Holstein and Jersey cows. Proceedings of the ADSA Meeting, Knoxville, TN, **USA**, June 24-27, 2018 (Poster). Journal of Dairy Science; 101 (Suppl. 2): 310. <https://www.adsa.org/2018/Abstract>.

### **INVITED TALKS (Selected)**

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1. **Uddin ME (Invited Speaker)**. Evaluation of enteric methane mitigation strategies in cattle using in-vivo experiment and holistic life cycle assessment. Minnesota 83<sup>rd</sup> Nutrition Conference organized by the Department of Animal Science, University of Minnesota, and University of Minnesota Extension and held at Mankato Minnesota, 21-22 September, 2022.
2. **Uddin ME (Invited Speaker)**. Evaluation of cattle diets and feed additives using holistic life cycle assessment approach. Presented during a webinar in June 2022 organized by the Nestle, USA.
3. **Uddin ME (Invited Speaker)**. Research approach toward achieving dairy systems sustainability. Presented during an in-person seminar in June 2022 organized by the Department of Animal Science, Colorado State University, Fort Collins.
4. **Uddin ME**, Aguirre-Villegas HA, Laron RA, and Wattiaux MA. Life cycle assessment of milk: Effects of dietary forage and cow breed on greenhouse gas emissions. Invited speaker at a webinar

hosted by the Environmental Research Team, Dairy Management Inc., Rosemont, Illinois, **USA**, August 04, 2020.

5. **Uddin ME** and Wattiaux MA. Improving carbon and nitrogen utilization efficiencies of dairy cows using dietary approach at whole-farm scale. Invited Speaker at Professional Dairy Producers of Wisconsin (PDPW) conference, Madison, WI, **USA**, March 14-15, 2018.
6. **Uddin ME**, Meuwissen T and Veerkamp RF. Adjusting for heterogeneity of experimental data in genetic evaluation of dry matter intake in dairy cattle. Invited Speaker in a Symposium at RTG, The University of Göttingen, Göttingen, **Germany**, June 3-4, 2016.
7. Khan MAS, and **Uddin ME**. Feed supplementation strategies to improve productive and reproductive performances in small holder dairy system. Presented at Asian-Australasian Animal Production (AAAP) Congress held at Bangkok, **Thailand**, November 26-30, 2012.

### **TEACHING INTEREST AND PLAN FOR NEW COURSE**

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- ✓ Dairy Cattle Production
- ✓ Ruminant Nutrition and Metabolism.
- ✓ Sustainability and Food Systems Modeling (**planned to introduce as a new course**)

### **TEACHING EXPERIENCES**

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Fall-2022	<b>Assigned Instructor (33-50% responsibility), South Dakota State University</b> Course: Lab Techniques (13 Graduate Students, Taught in-person) Course: Introduction to Dairy Science (40 Undergraduates, Taught in-person)
Spring-2022	<b>Assigned Instructor (50% responsibility), South Dakota State University</b> Course: Dairy farm Operations II (21 Undergraduate senior, Taught in-person)
Fall-2021	<b>Assigned Instructor (50% responsibility), South Dakota State University</b> Course: Dairy farm Operations I (22 Undergraduate senior, Taught in-person) Course: Introduction to Dairy Science (30 Undergraduate freshmen, Taught in-person)
Spring-2021	<b>Guest Instructor, University of California-Davis</b> Course: Sustainable Animal Agriculture, Level: Undergraduate (Virtual)
Fall-2020	<b>Invited Guest Instructor, University of Wisconsin-Madison</b> Course: Ruminant Nutrition Physiology, Level: Graduate students
Fall-2018	<b>Teaching Assistant, University of Wisconsin-Madison</b> Course: Ruminant Nutrition, Level: Undergraduate and graduate (22 participants).
2012-2014	<b>Lecturer (full-time), Bangladesh Agricultural University</b> As lecturer, I designed and sole-taught the following courses: Jul.-Dec./2012 & Course: Fundamentals of dairy science (Theory) Jul.-Dec./2013 Level: Freshman year undergraduate (70 participants) Jan.-Jun./2013 & Course: Dairy cattle production (Theory) Jan.-Jun./2014 Level: Senior year undergraduate (60 participants) Jul.-Dec./2012 & Course: Elementary Dairy Science (Lab) Jul.-Dec./2013 Level: Sophomore year undergraduate (35 participants) Jan.-Jun./2013 & Course: Dairy microbiology (Lab) Jan.-Jun./2014 Level: Sophomore year undergraduate (30 participants)

## ADVISING AND MENTORING EXPERIENCES

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Jan 2022-Present	<b>South Dakota State University</b> Academic advisor of 4 graduate students and few undergraduates
2020-2021	<b>University of California-Davis</b> Mentor 2 graduate students
2017-2019	<b>University of Wisconsin-Madison</b> 3 dairy science junior, 1 animal science sophomore and 2 biological systems engineering junior undergraduates for their research project/independent study courses culminating in presentations at undergraduate symposia organized by the university.
2012-2014	<b>Bangladesh Agricultural University</b> 3 graduate and 3 undergraduate students to design and conduct research projects in animal nutrition. Project findings resulted in peer-reviewed journal articles.

## PEDAGOGICAL TRAINING ATTENDED

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15 & 17 February 2022	<b>National Teaching Workshop series</b> sponsored by the United States Department of Agriculture (USDA) and Association of Public and Land-grant Universities (APLU).
ADSA-meetings	<b>Teaching Workshop</b> organized by the American Dairy Science Association (ADSA) Meetings held in 2018, 2019, 2020 and 2021.
Fall-2018	<b>Effective Teaching in an Internationally Diverse Classroom</b> course offered by the DELTA Program, University of Wisconsin-Madison.
Jul. 2012	<b>Training on Teaching Methods and Techniques</b> organized by the Graduate Training Institute, Bangladesh Agricultural University.

## GRANTS AWARDED AS PI

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<b>Project Role</b>	<b>Funding Agency</b>	<b>Fund &amp; duration</b>	<b>Project Title</b>
<b>M. E. Uddin (PI)</b>	Native Microbial Inc.	\$184,938	Effect of feeding endo-microbial on enteric methane emissions in lactating dairy cows
<b>M. E. Uddin (PI)</b>	Zinpro Inc.	\$105,000	Effects of dietary isoacids supplementation on performances, enteric methane, efficiency, and fatty profiles in lactating dairy cows
<b>M. E. Uddin (PI)</b>	Cargill Inc.	\$247,649	Rumen fermentation kinetics and rumen microbiome responses to feeding varying amounts of a macro feed ingredient to lactating dairy cows

## **SUBMITTED GRANTS PROPOSAL (Under Review/Not Funded Category)**

<b>Project Role</b>	<b>Funding agency</b>	<b>Fund &amp; duration</b>	<b>Project Title</b>
<b>M. E. Uddin (PI)</b> , and Benoit St. Pierre (Co-PI) <b>Collaborator:</b> Dairy Producers	FFAR New Innovator in Food & Agriculture Research Award	\$435,000	<b>Program title:</b> Holistic evaluation of enteric methane mitigation strategies using life cycle assessment ( <b>Nomination submitted</b> )
<b>M. E. Uddin (PI)</b> , and Rebecca Larson (Co-PI) <b>Collaborator:</b> Dairy Producers	Sustainable Agriculture Research and Education (SARE) Grant	\$248,000	Evaluating sustainability of dairy production systems in South Dakota: Relationship between milk carbon footprint and farm profitability ( <b>Received invitation for full-proposal</b> )
<b>M. E. Uddin (PI)</b> , David Clay and Benoit St. Pierre	USDA-NIFA ( <b>New Investigator</b> )	\$503,377	Assessment of dietary and feed additive-based enteric methane mitigation strategies using holistic approach: Capturing tradeoffs and interactions between components of dairy production systems ( <b>Not funded</b> )

## **FELLOWSHIP, AND AWARDS**

Feb. 2019	<b>University of Wisconsin-Madison Travel Grant</b> (~\$2,500) to attend a training course on life cycle assessment at Wageningen University and Research in the Netherlands (11-15 February 2019).
Feb. 2018	<b>University of Wisconsin-Madison Seminar Grant</b> (\$3,000) to organize a seminar on 'International Mother Language Day'.
2012-2014	<b>Dutch Koepon Foundation Fellowship</b> (\$52,000) for 2 years at Wageningen University and Research and Norwegian University of Life Sciences.
2012	<b>AusAID Travel Grant under International Seminar Support Scheme</b> (\$1,500) to attend Asian-Australasian Animal Production Congress, Bangkok, Thailand, 29 November-04 December 2012.
2012	<b>Prime Minister Gold Medal</b> , University Grants Commission of Bangladesh.
2011-2012	<b>National Science and Technology (NST) Fellowship</b> , Ministry of Science and Technology, Peoples Republic of Bangladesh.
2009	<b>University Grants Commission (UGC) Merit Award</b> , Bangladesh.

## **SKILLS AND RELEVANT COURSEWORK (GRADUATE LEVEL)**

<b>Computing</b>	R, ASREML, SAS, SimaPro (Life cycle assessment software).
<b>Modeling</b>	Life cycle assessment, meta-analysis, sensitivity, and uncertainty analysis.



## Sampling & Analytical

i) Air sampling for greenhouse gas measurements from manure chain (storage and crop-field) using static chamber method, and ii) feces and urine (total collection and spot sampling), saliva, milk, feed, and orts sampling in animal nutrition trial (Ruminants), iii) Neutral detergent fiber, acid detergent fiber, lignin, glucose, and starch for feed and fecal samples, iv) Ruminant ammonia-N and volatile fatty acids, v) manure ammonia, and vi) enteric methane using GreenFeed and respiration chamber.

## UNIVERSITY SERVICES AND EXTRACURRICULAR ACTIVITIES

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- Dec. 2022-present **Search Committee Members**, Recruitment of Dairy Production Professor & Assistant Manager-Dairy Research and Training Facility, South Dakota State University.
- Oct. 2022-present **Advisor**, Lab Safety Committee, Dairy and Food Science Department, South Dakota State University.
- Oct. 2020-2021 **Chair, Postdoc Research Symposium-2021 Organizing Committee**, UC-Davis.
- Aug. 2020-2021 **Postdoc Member, Academic Planning and Development Committee**, UC Davis.
- Mar. 2020-2021 **Vice-Chair**, Postdoctoral Scholars Association, University of California-Davis.
- 2017-2018 **President**, Bangladesh Student Organization, University of Wisconsin-Madison.
- 2012-2014 **Co-administrator at Student Dormitory**, Bangladesh Agricultural University.
- 2007-2009 **Executive Member and Publication Secretary**, Badhan, a voluntary blood donation organization, Bangladesh Agricultural University.

## JOURNAL/GRANT PROPOSAL REVIEWER

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- ✓ **Journals:** Journal of Dairy Science, Journal of Cleaner Production, Journal of the ASABE, One Earth, Translational Animal Science, Applied Animal Science, Animal, Journal of Animal Science
- ✓ **Major Grant:** USDA NP 101 Grant Proposal Panel 4: Ruminant Nutrition (2022), Dairy Farmers of Canada Grant Proposal: Dairy Research Cluster 4 Initiative (2022).

## PROFESSIONAL MEMBERSHIP

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- 2017-present **Member**, American Dairy Science Association.
- Jan.-Dec. 2021 **Member**, National Postdoctoral Association (NPA), USA.
- 2012-2014 **Member**, Bangladesh Society for Animal Production Education and Research.

## REFERENCES

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Be available upon request