

Ali, Tanzeem I

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Summary

Tanzeem Iqbal Ali is an assistant professor of Science Education at the Teacher Education program. She has been teaching at the University of Wisconsin-Superior since 2015. Her courses include Elementary and Middle School Science Methods, Secondary Science Methods and Human Development. At the University of Wisconsin-Superior, Dr. Ali serves as the liaison between the Natural Sciences Department and the Teacher Education Program. Other committees she is a member of include, the Teacher Education Advisory Committee, Enrollment Management Committee and the Educator Preparation Advisory Committee.

Education

PHD | 2013 | UNIVERSITY OF WYOMING

· Major: Curriculum and Instruction ·

Focus: Science Education

MSC | 2007 | ASIAN INSTITUTE OF TECHNOLOGY

· Major: Natural Resource Management

BSC | 2002 | INDEPENDENT UNIVERSITY BANGLADESH

· Major: Environmental Management

· Minor: Economics

Experience

ASSISTANT PROFESSOR | UW-SUPERIOR | 2015 TO PRESENT

Assistant Professor for Science Education on (tenure track) at the Department of Educational Leadership, Teacher Education Program. Taught both an online and an on-campus course titled NSED 321 Teaching elementary and middle school science using the Inquiry based 5- E Instructional Teaching Strategy focusing on training pre-service teachers to create and teach interdisciplinary science lessons. Taught both an on campus and an online course titled TED 253 Human Development using a Bio-cultural approach to learn about the domains and developmental stages (birth through adolescence) and how these affect behaviors of learners in K-12 classrooms. Also taught a course offered only in spring titled NSED 339 Secondary Science Methods using inquiry based teaching strategies such as the conceptual change model and the 5E instructional teaching strategy.

INSTRUCTOR | UNIVERSITY OF WYOMING | 2009 TO 2011

Instructor for physical and earth science seminar for elementary and early childhood education majors titled Physical sciences for elementary education. Taught three sections each of 30 students every week using the Conceptual Change Model and Constructivist Teaching Strategies.

TEACHER | UNIVERSAL TUTORIAL | 1998 TO 2005

Began my career in teaching at Universal tutorial my almaternas a Teacher (part time) in Elementary and Middle School Section for English Language (Creative Writing) and Science. After working for four years was promoted as teacher in charge at the Gulshan Branch, where I served for a year before joining back at the main campus teaching grades VI through XII for a year before leaving for my masters program.

PROFESSIONAL ASSOCIATION MEMBERSHIPS AND INVOLVEMENTS:

National Science teachers Association, (NSTA); Wisconsin Society of Science Teachers, (WSST); Wisconsin Association of Environmental Educators, (WAE). She works closely with the [Diversity Leadership Team](#) at the

Northern Lights Elementary School. She is a scientist at the [Center for Astronomy and Physics Education Research Team](#), a member of the special interest group [Teacher Educators Network for Environmental Education \(TENFEE\)](#) of the [Wisconsin Association for Environmental Educators \(WAEE\)](#) and Director of the Nouvelle Securities Limited a brokerage firm in Dhaka Bangladesh which is owned by her family.

PUBLICATIONS

- Ali, T. (2017). “Outdoor Education Review Report” Creation of Environmental Education aligned assignment and assessment at the NSF funded Environmental Education workshop for educators at Institutes of Higher Education, Madison, Wisconsin June 11-14, 2017.
- Ali, T. (2017). “Reflection on the EE workshop” experience of an attendee published in the WSST newsletter in October issue.

PRESENTATIONS

- Ali, T. (2017), “Arsenic Contamination in Bangladesh”, Presentation to all sections of fifth graders at the Northern Lights Elementary School, Superior, Wisconsin, April 20 and May 2, 2017.
- Ali, T. and Franzen, R. (2018). Session on EE Possibilities at the WAEE Winter Workshop at Treehaven, Tomahawk, Wisconsin January 19- 21, 2018.

AREA OF EXPERTISE AND RESEARCH INTEREST

Her area of expertise are in Curriculum and Instruction, Science Education, Natural Resource Management, Environmental Management and Economics. Her research experience in Environmental and Natural Resource Management is on Arsenic Mitigation Project, Immobilization of Arsenic through Hydrated Lime Treatment and Public Private Partnership models of water supply system in Bangladesh. Her research experience in Comparative Education focuses on international education structures, particularly the ways in which "shadow education" systems perpetuate and extend inequities of educational opportunity in Science Education. Her area of research interest are in Conceptual Change, Private Supplementary Tutoring or Shadow Education, Student Voice, 5 E inquiry based integrated teaching, Environmental Education/Literacy, Teacher Education and Administration.

GRANT ACTIVITY

Mendoza-Rios, L., and Ali, T., (2017). “Plastic Pollution in Wisconsin”, proposal for WiTAG/ARG grant accepted in preliminary round. January 8, 2017.

Mendoza-Rios, L., and Ali, T., (2017). “*Prevention of Plastic Debris Pollution in the Great Lakes*”, proposal for NOAA Marine debris prevention grant accepted in preliminary round, November, 1, 2017.

PERSONAL PROFESSIONAL DEVELOPMENT

- Faculty College Summer 2017 at Richland, Wisconsin May 29 – June 1, 2017.
- Environmental Education Workshop at Madison, Wisconsin June 11-14, 2017.
- Supporting Students with autism workshop by the Autism Society of Minnesota hosted by the Great Lakes Aquarium, September, 26, 2017.
- Annual conference of the Wisconsin Association of Environmental Educators at Mequon, WI, October 19-21, 2017.
- Project learning tree workshop “Carbon and Climate” held at UW-Superior October 3, 2017.

