

Fatemeh Mohammadshirazi

Email: fmohamm@ncsu.edu

Cell phone: 919-7609599

Education:

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| 2012-present | Master of science, Soil Science. North Carolina State University, Raleigh, NC, US. <ul style="list-style-type: none">Title of master thesis: "Tillage and amendments to remediate soil in post construction soils". |
| 2007-2010 | Master of science, Chemistry and Fertility of Soil and Plant nutrition. University of Tehran, Karaj, Iran. <ul style="list-style-type: none">Title of master thesis: "Effect of excessive zinc on phosphorus absorption by two cultivars of wheat".Title of master seminar: "Use of natural Zeolites in agricultural and environmental fields". |
| 2003-2007 | Bachelor of science in Soil Science. University of Tehran, Karaj, Iran. <ul style="list-style-type: none">Title of Seminar: "Role of phosphorus in plants" |

Presentations:

- Fatemeh M. Shirazi, Virginia Brown, Rich McLaughlin and Josh Heitman. Tillage and amendments to remediate compaction for post construction soils. ASA, CSSA, and SSSA Annual Meetings, Long Beach, CA, Nov. 2014.
- Fatemeh M. Shirazi, Using tillage and amendments to remediate post construction site soil compaction. MS4 conference, Charlotte, NC, Aug. 2014.
- Fatemeh M. Shirazi, Remediation to improve infiltration of post construction soil. Erosion, sediment and turbidity workshop, Auburn University, AL, May 2014. (Invited speaker)
- Fatemeh M. Shirazi, Treating soil like dirt: fixing compaction on post construction sites. Erosion, sediment and turbidity workshop, Raleigh, NC, May 2014.
- Fatemeh M. Shirazi, Virginia Brown, Rich McLaughlin and Josh Heitman, Investigation of tillage as a best management practice on post construction sites. NCWRR conference, Raleigh, NC, Mar. 2014.(Second place in poster competition)
- Fatemeh M. Shirazi, Rich McLaughlin and Josh Heitman, Developing methods to remediate soil compaction in urbanizing areas. Annual meeting of SSSNC, NC, Jan. 2014.
- Fatemeh M. Shirazi, Rich McLaughlin and Josh Heitman, Assessing stormwater infiltration remediation approaches for developed, compacted soils. SSSA meeting, Tampa, FL, Nov. 2013.

- Fatemeh M. Shirazi and Rich McLaughlin, Tillage for urban green spaces. Workshop on the erosion and sediment control/stormwater site manager, Raleigh, NC, Oct 2013.
- Fatemeh M. Shirazi, Moez Ardalan and Hossein Mirhosseini, Effect of excessive zinc on phosphorus concentration in two cultivars of wheat. 8th international Soil.sci.Congress, İzmir, Turkey, 2012.
- Fatemeh M. Shirazi and Hossein Mirhosseini, Use of natural Zeolites in agricultural and environmental fields. 14th international conference of clay, Bari, Italy, 2009.

Work Experience:

- Teaching Soil Science Laboratory course, NCSU, NC, US. Jan-May 2014.
- Working in the research project for North Carolina Department of Transportation, NC, US. Aug 2013- present.
- Working in the research project for North Carolina Clean Water Management Trust Fund, NC, US. Nov 2012- Feb 2014.
- Working in the soil and environmental hydrogeochemistry laboratory, NCSU, NC, US. Sep 2012- Nov 2012.
- Working in the soil physical chemistry laboratory, NCSU, NC, US. Sep 2012- Nov 2012.
- Teaching Biostatistics, Medical Branch of Azad University, Tehran, Iran. Jan 2012- July 2012.
- Teaching English, Tehran Medical Branch of Azad University, Tehran, Iran. Jan 2012- July 2012.
- Teaching English, Simin educational association (west branch), Tehran, Iran. Sep 2011- March 2012.
- Working at Soil chemistry and plant nutrition department. Soil and Water Research Institute, Karaj, Iran. May 2011-Jan 2012.
- Offering two research proposals for ICARDA under the titles of: 1) "Integrated plant nutrient management towards water productivity enhancement in rain fed areas of Karkheh River Basin (KRB)" 2) "Integrated "Plant Nutrient Management" towards water productivity enhancement in irrigated areas"
- Offering a research proposal under the title of " Effectiveness enhancement of local phosphates by its incubation with different acids and organic materials " with 8 subprojects
- Reviewing master theses under the title of " Study of application time of Urea fertilizer on N use efficiency in rice"
- Reviewing 7 research papers for 12th congress of soil science
- Reviewing 4 research papers for Iran soil science journal
- Reviewing 15 papers for Zeytoon journal

- Reviewing a paper for Ferdowsi soil science journal
- Preparing final report of a research experiment under the title of " Use of chlorophyll meter for sidedress application of Nitrogen in Barley"
- Preparing final report of a research experiment under the title of " Increasing the Efficiency of Micronutrient Fertilizers to Improve Quantity and Quality of Wheat and Community Health" with 11 subprojects
- Tutoring English for students of University of Tehran. Karaj, Iran, 2006-2010.
- Tutoring soil chemistry for students of University of Tehran. Karaj, Iran, 2009-2010.
- Tutoring secondary school Math. Tehran, Iran, 2007-2008.
- Working at Soil and Water Remediation reference laboratory. Iran Environmental protection agency, Tehran, Iran, September-November 2006.
- Working at Soil Science reference laboratory. Iran Environmental protection agency, Tehran, Iran, July-September 2006.
- Working at Soil chemistry and plant nutrition laboratory. University of Tehran, Karaj, Iran, April-July 2006.

Professional Service:

- Being Presenter/Instructor/Moderator/Assistant Organizer for numerous workshops on:
 - Storm water management,
 - Sediment and turbidity control for technical and non-technical audiences: Erosion, sediment, and turbidity workshop, Auburn Univ. (May 2014); Southern Region Soil Physics Meeting, NCSU (May 2014); Erosion, sediment, and turbidity workshop, NCSU (May 2014, Oct. 2013), North Carolina Soil Science Society Meeting (Jan. 2014, Jan. 2013).
- Being Vice President, NC Soil Science Graduate Student Association, 2013-present.
- Being Program Leader on "Soils" for Cary Elementary School, 3rd Grade (80 students), Cary, NC, April 2014.

Membership:

- Soil science society of America.
 - Soil science society of North Carolina.
 - American society of agronomy.
 - Crop science society of America.
 - Water Resources Research Institute.
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