

# JOSHUA JAMES LEMONTE

## CURRICULUM VITAE

### PERSONAL INFORMATION

Brigham Young University  
Department of Plant and Wildlife Sciences  
275 WIDB  
Provo, UT 84602

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### EDUCATION

M.S. Environmental Science Brigham Young University Apr. 2011 GPA :: 3.78 GRE :: 1220  
Major Professor: Bryan G. Hopkins  
Thesis Title: *Evaluation of Environmental Implications of Polymer Coated Urea Using Standard Methods and Photoacoustic Infrared Spectroscopy*

B.S. Environmental Science Brigham Young University Dec. 2009 GPA :: 3.38 ACT :: 30

### EXPERIENCE

#### TEACHING ASSISTANT

January 2009 - Present

Brigham Young University :: Department of Plant and Wildlife Sciences

Provo, Utah

- Lead TA :: Soil & Plant Water Relations (PWS 511), Environmental Biology (PWS 150), Principles of Biology (Bio 100)

#### RESEARCH ASSISTANT/LABORATORY MANAGER

March 2008 - Present

Soil Biophysical Chemistry Laboratory

Provo, Utah

Department of Plant and Wildlife Sciences

Brigham Young University

- Design and implement experiments leading to publications
- Air quality research
  - Focus on nitrous oxide and ammonia emissions
  - Utilize photoacoustic infrared spectroscopy, gas chromatography, and passive flux collection
- Water quality research
  - Focus on nitrate leaching from high output and high use systems
  - Proficient with automated cadmium reduction, spectrophotometric analyses, and lysimeter installation and use
- Plant sampling and analysis
  - Perform with perchloric acid digestion and inductively coupled plasma analysis
  - Experience with multiple species including potato, kentucky bluegrass, corn, sugarbeets, apples, peaches, wheat, and aspen
- Soil sampling and analysis
  - Proficient in sampling and sample preparation in both agrarian and forest ecosystems
  - Analyze soils for nitrate, ammonium, and total nitrogen
- Manage multiple projects and up to 40 students at a time

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### EXPERIENCE

#### LABORATORY TECHNICIAN

Plant and Soil Analysis Laboratory  
Brigham Young University

September 2007 - April 2008  
Provo, Utah

- Operated sophisticated instruments including: spectrophotometer, analytical inductively coupled plasma, atomic absorption spectrophotometer, electrical conductivity meter, and analytical scales
- Conducted precise measurements and titrations for plant and soil physical and elemental analyses

### SCHOLARSHIP AND AWARDS

CSSA Gerald O. Mott Meritorious Graduate Student Award in Crop Sciences, 2010  
Third Place, Frank L. Haynes Graduate Student Research Award Competition, 2010  
Fourth Place, BYU Plant and Wildlife Sciences Graduate Student Oral Presentation Competition, 2010  
Agronomy & Horticulture Scholarship Recipient, 2010  
Albert F. & Louie J. Bahr Scholarship Recipient, 2010  
Raymond & Maurine Farnsworth Scholarship Recipient, 2010  
Third Place, Western Nutrient Management Conference Student Poster Competition, 2009  
BYU Office of Research and Creative Activities Grant Recipient, 2009  
President, Environmental Science Club, Brigham Young University, 2008–2009  
Federal SMART Grant Recipient, 2008–2009

### PUBLICATIONS & PRESENTATIONS

- Hill, M., B.G. Hopkins, J.J. LeMonte, T.J. Hopkins, V.D. Jolley, B.L. Webb. 2010. Phosphorus Flux in Soil Increased with Organic Acid Complexation. ASA-CSSA-SSSA. Long Beach, CA. Poster Session.
- Hopkins, B.G., J.J. LeMonte, J.S. Summerhays, V.D. Jolley, B.L. Webb. 2010. Nitrogen Use Efficiency in Kentucky Bluegrass. ASA-CSSA-SSSA. Long Beach, CA. Oral Presentation.
- Hopkins, Bryan G., LeMonte, Joshua J. 2010. Growth Spurts: Impacting Hormones in Sugarbeets. Sugar Producer. June/July, p 22-25.
- LeMonte, J.J., B.G. Hopkins, J.S. Summerhays, V.D. Jolley, R.E. Terry. 2010. Nitrous Oxide and Ammonia Emissions from Turfgrass: Urea vs. Polymer Coated Urea. ASA-CSSA-SSSA. Long Beach, CA. Oral Presentation.
- Ransom, C.R., B.G. Hopkins, J.J. LeMonte, V.D. Jolley, B.L. Webb, L. Babbel. 2010. Improving Phosphorus Use Efficiency with Organic Acid Complexation: Corn. ASA-CSSA-SSSA. Long Beach, CA. Poster Session.
- Summerhays, J.S., J.J. LeMonte, B.G. Hopkins, V.D. Jolley, B.L. Webb. 2010. Nitrogen Use Efficiency and Potato Yield with Polymer Coated Urea. ASA-CSSA-SSSA. Long Beach, CA. Poster Session.
- LeMonte, J.J., T.W. Taysom, B.G. Hopkins, V.D. Jolley, B.L. Webb. 2009. Residual Soil Nitrate and Potato Yield with Polymer Coated Urea. WNMC. Salt Lake City, UT. Student Competition.
- LeMonte, J.J., B.G. Hopkins, R.E. Terry, V.D. Jolley, B.L. Webb, J.R. Buck. 2009. Nitrous Oxide and Ammonia Emission Reductions with Polymer Coated Urea. ASA-CSSA-SSSA. Pittsburgh, PA. Poster Session.
- LeMonte, J.J., T.W. Taysom, B.G. Hopkins, V.D. Jolley, B.L. Webb. 2008. Residual Soil Nitrate and Potato Yield with Polymer Coated Urea. ASA-CSSA-SSSA. Houston, TX. Poster Session.